

27364	92836	89428	81268	74982	46498	32784	31277
40932	70987	32123	49817	26346	81287	65491	87364
75654	55656	12737	72727	72727	91918	63473	67867
87629	37677	32612	53498	71296	28756	18276	98716
76329	74698	76857	98670	27601	56701	57601	73648
87364	87265	96710	27630	12673	84769	28743	98127
63298	75698	27465	87326	49876	28376	81273	98615
87432	74328	78674	29867	32867	67867	86786	43286
68768	68763	34234	34238	68768	62342	48273	48768
98432	32432	86743	43286	43286	43286	43286	43286
86743	86743	39867	32867	86743	43286	43286	43243
86743	86743	86743	86743	86743	86743	86743	86743
98798	98754	98754	98754	98754	29867	67543	67986
87698	69876	87698	69876	87612	12341	34867	86798
43298	65656	56756	56123	32143	14321	32143	14321
58765	58765	58765	58765	58765	58765	58765	58765

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #336, September 2025

Editor: Ary Boender email: udxf@udxf.nl

Numbers & Oddities <http://www.numbersoddities.nl>

"Numbers & Oddities" a.k.a. the "Spooks Newsletter" is a newsletter for the members of the Utility DXers Forum (UDXF), the Spooks mailing list, HF Underground and everyone else who is interested in Numbers Stations.

"Numbers & Oddities" covers the fascinating world of Numbers Stations and other odd radio signals on shortwave.

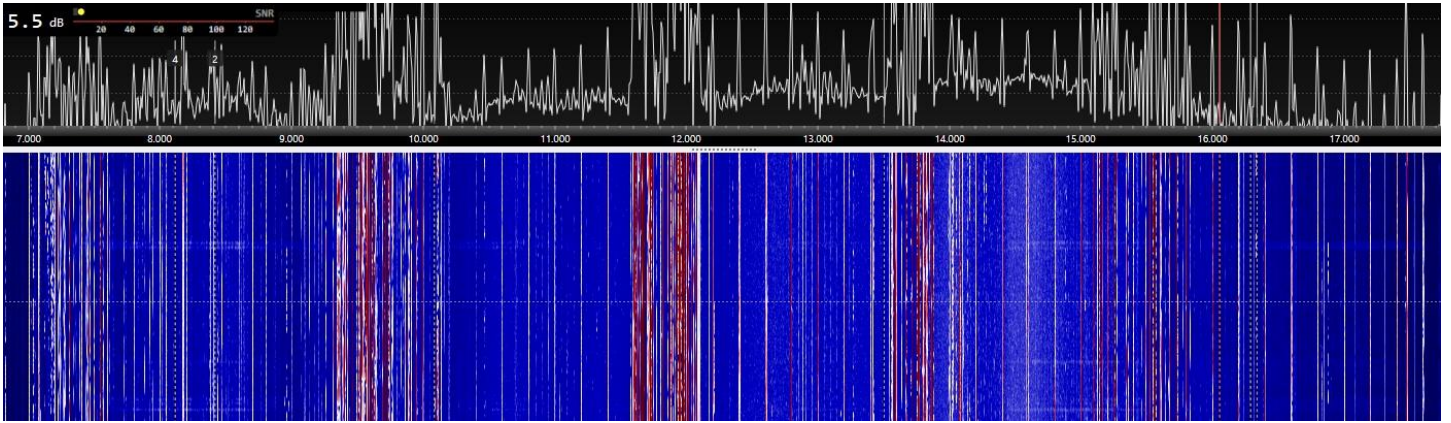


- . . . - - - - - . - . - . . . - - - - . . - -

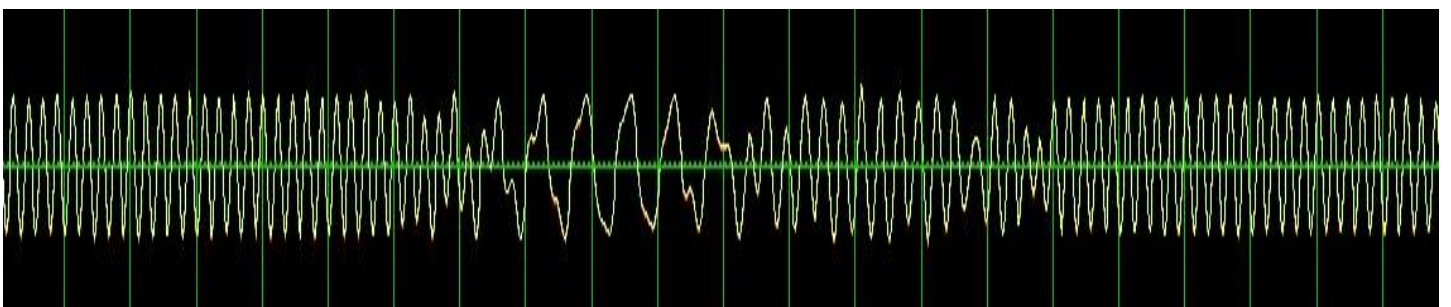


Numbers and Oddities

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NOTE FROM THE EDITOR

We had several days with really bad conditions and besides that a number of the high Polish frequencies were almost impossible for me to catch locally. The same applies to F06 70202 and F01 at 1015/1025/1035z. I was unable to hear them on my own radio. Fortunately, there are web SDRs, on which I could hear the stations. Nevertheless, I still missed a number of broadcasts.

The Polish stations were silent on September 21st and partly on the 22nd. They returned at 0950z on the 22nd.

I'd like to thank all contributors, especially PY for the Russian test transcripts, JPL for the M89/M95 logs and TJ for M42b.

We have a nice collection of unid stations and M42b logs and the Russian transmitted a massive amount of E06, E06b, G06, S06, S06g, V06, F06, M14, M12, V07, XPA2 and XPB1 messages in August and September. We already published a number of them in N&O 335. Many of the remaining logs can be found in this edition of N&O. We possibly missed a few transmissions but we cover the majority here in N&O. Special thanks to Pierre (PY) and other members of the Priyom team for these logs.

Processing the enormous amount of logs (over 3100), recordings (more than 150), and transcripts took a lot of time, that, in combination with time consuming personal issues resulted in N&O's latest publication day to date, but in my opinion, it is worth the wait.

VOICE STATIONS

Russian Operator 6 August Test/Training Transmissions

In August, classic Russian 6 analogue mode tests reappeared. Voice transmissions were operated exclusively in that new J3E mode, with that occasional, apparently deliberate switching between USB and LSB. As a difference in operating procedures, we can note that pre-TX tests used 1000Hz tones instead of 1200Hz with usual H3E transmissions.

Most voice transmissions used a faster pace than normal; and most transmissions, including Morse ones, sent a message that was identical to or derived from a same reused message.

Last but not least, G06 and V06 made apparitions on the air. They even appeared during language confusion in pre-TX tests!

The transmissions included E06, E06b, G06, S06, S06g, V06, F06, and M14.

M14 9463 kHz, 12-08, 1123 UTC, CW. Slow beeps

M14 9463 kHz, 12-08, 1130 UTC

801 801 [slow beeps] 801 [8s silence]

801 (R40s)

8 [10m silence] 51 87135 62674

[2m50s silence] 94018 49438 88309 898 [no further activity]

Fragments of common message reused in following days

E06 10755 kHz, 13-08, 0720 UTC

975 (R4m) 001 52

34512 37837 98234 78578 34527 64523 65718 62374 18273 46712

63478 12471 63417 82647 81263 74816 28561 23182 36713 62481

26316 59834 75923 74587 93745 71783 46126 34781 26341 65893

76176 58712 36781 46361 84812 73468 17234 69817 32587 12365

87123 65817 63581 26351 78634 81726 34782 67348 16274 61283

71368 51345

001 52 00000

S06 10755 kHz, 14-08, 1750 USB/LSB. The station switched between USB and LSB

E06 75 (R4m) then S06

163 52

49438 88309 89844 29755 43522 86822 37777 65396 57739 72887

46478 61340 73571 81729 24160 70696 11630 34288 [USB -> LSB] 4288 23723 90417

25667 50094 22979 20880 31825 61293 93911 71263 39603 73755

62428 59358 39251 87135 62674 86991 50022 99152 38331 45245

90772 16975 62599 18605 29221 76322 99023 44889 16417 12002

55770 16309

[LSB -> USB] 163 52 00000 [8s silence]
975 975 97 [12s silence]
975 975 975 52631 9 [no further activity] fast pace

Full recomposed message (derived from common message without the 1st group):

975 163 52
49438 88309 89844 29755 43522 86822 37777 65396 57739 72887
46478 61340 73571 81729 24160 70696 11630 34288 23723 90417
25667 50094 22979 20880 31825 61293 93911 71263 39603 73755
62428 59358 39251 87135 62674 86991 50022 99152 38331 45245
90772 16975 62599 18605 29221 76322 99023 44889 16417 12002
55770 16309
163 52 00000

G06 10755 kHz, 15-08, 1200 UTC. Fast pace, shortened version of common message

975 (R4m) 201 34
94018 49438 88309 89844 29755 43522 86822 37777 65396 57739
72887 46478 61340 73571 81729 24160 70696 11630 34288 23723
90417 25667 50094 22979 20880 31825 61293 93911 71263 39603
73755 62428 59358 39251
201 34 00000

M14 9463 kHz, 16-08, 0945 UTC. Slow beeps

M14 9463 kHz, 16-08, 1000 UTC

801 (R4m) 203 55 203 55 = =
49438 88309 89844 29755 43522 86822 37777 65396 57739 72887
46478 61340 73571 81729 24160 70696 11630 34288 23723 90417
25667 50094 22979 20880 31825 61293 93911 80263 [5s silence]
801 (R1m15s)
31825 61293 93911 71263 39604 73755 62428 59358 39251 87_35
62674 86901 5002_9_152 38331 45245 45245 90772 16975 62599
18605 29221 76322 99023 44889 16417 12002 17709 1_922 12002 [10s silence]
309 1 [15s silence]
2922 [2s silence]
801 801 801 801
29221 [2s silence]
801 (R1m15s)
29221 76322 99023 44889 16417 12002 55770 16309 33827 95091 36666
= 203 55 00000
presumably repeat of 2025-08-14 with 3 additional groups appended

E06b 10755 kHz, 17-08, 0915 UTC. The station switched between USB and LSB

975 15791 (R4m) 843 52
95149 [USB -> LSB] 9 10536 32717 51287 21665 84024 83958 65800 26343 31731
54548 36673 20874 68538 92942 12593 11984 52534 55295 68733
22067 43305 37955 36292 18935 27693 97305 28229 20023 45373
39895 16999 41523 13919 90958 97323 30263 12689 41872 56937
23564 39879 26158 82413 24025 47691 41147 36092 80997 69103
62385 73003
[LSB -> USB] 843 52 00000

Full recomposed message:

975 15791 843 52
95149 10536 32717 51287 21665 84024 83958 65800 26343 31731
54548 36673 20874 68538 92942 12593 11984 52534 55295 68733
22067 43305 37955 36292 18935 27693 97305 28229 20023 45373
39895 16999 41523 13919 90958 97323 30263 12689 41872 56937
23564 39879 26158 82413 24025 47691 41147 36092 80997 69103
62385 73003
843 52 00000

V06 10755 kHz, 18-08, 1715 UTC. The station switched between USB and LSB

975 (R4m) 631 52
22501 86835 20132 33328 [USB -> LSB] 93531 4 [LSB -> USB] 45060 27963 35651 42853 92721
77011 58762 52024 76389 458 [1m56s silence]
975 975 975 975 [USB -> LSB] 5 [18s silence]
[LSB -> USB] 92721
77011 58762 52024 76389 45893 34269 50377 89107 88103 75502
34653 26501 89879 89095 99642 94095 39099 21285 15934 31417
29925 11621 14949 64985 29584 40600 97839 12306 46602 54330
74002 82495 78599 66473 22873 57707 44577 88376 82361 61078
68255 61456
631 52 00000 fast pace

Full recomposed message:

975 631 52
22501 86835 20132 33328 93531 45060 27963 35651 42853 92721
77011 58762 52024 76389 45893 34269 50377 89107 88103 75502
34653 26501 89879 89095 99642 94095 39099 21285 15934 31417
29925 11621 14949 64985 29584 40600 97839 12306 46602 54330
74002 82495 78599 66473 22873 57707 44577 88376 82361 61078
68255 61456
651 52 00000

S06g 10755 kHz, 19-08, 0905 UTC. 1000Hz test tone [USB -> LSB in the middle of the tone] then USB S06 "975" once

S06g 10755 kHz, 19-08, 0920 UTC. The station switched between USB and LSB

[USB] 975 [USB -> LSB] 975 975 [LSB -> USB] 12345 975 12345 (R1m25s)
975 975 9 [USB -> LSB] 975 12 [LSB -> USB] 2345
975 12345 (R2m30s) 681 52
96444 51878 43650 47441 57732 12490 75075 62211 75309 60314
18040 64224 95178 78345 43064 20105 49426 99390 76030 98547
19407 52536 33637 25337 24919 65933 10040 53766 52377 51919
47896 52021 85569 85337 99754 88059 50413 51965 53368 60006
90817 45185 75938 23882 55290 15364 13274 21320 22681 63856
27549 38018
681 52 00000 fast pace

Full recomposed message:

975 12345 681 52
96444 51878 43650 47441 57732 12490 75075 62211 75309 60314
18040 64224 95178 78345 43064 20105 49426 99390 76030 98547
19407 52536 33637 25337 24919 65933 10040 53766 52377 51919
47896 52021 85569 85337 99754 88059 50413 51965 53368 60006
90817 45185 75938 23882 55290 15364 13274 21320 22681 63856
27549 38018
681 52 00000

M14 9463 kHz, 20-08, 0802 UTC. Slow beeps

M14 9463 kHz, 20-08, 0805 UTC

801 (R1m5s) 80 [1m20s silence]
1 801 801 801 [8s silence]
801 (R35s) 80 [8m15s silence]
801 (R50s) 8 [2m35s silence]
801 (R50s) 80 [no further activity]

V06/E06 10755 kHz, 21-08, 0856 UTC. V06 "975" twice (wrong language) then E06 "975" once

E06b 10755 kHz, 21-08, 0900 UTC. The station switched between USB and LSB

975 51364 (R25s)
975 975 9 [USB -> LSB] 7 [LSB -> USB] 5 51364
975 51364 (R35s) 9 [USB -> LSB] 97 [LSB -> USB] 5 975 975 51364
975 51364 (R1m) 9 [USB -> LSB] 975 9 [LSB -> USB] 75 975 51364
975 51364 (R1m40s) 213 52
94018 4943 [USB -> LSB] -49438 [LSB -> USB] 88309 89844 29755 43522 86822 37777 65396 57739
72887 46478 61340 73571 81729 24160 70696 11630 34288 23723

90417 25667 50094 22979 20880 31825 61293 93911 71263 39603
73755 62428 59358 39251 87135 62674 86991 50022 99152 38331
45245 90772 16975 62599 18605 29221 76322 99023 44889 16417
12002 55770
213 52 00000 fast pace

Full recomposed message (common message, reuse of 2025-08-14 and 2025-08-15):

975 51364 213 52
94018 49438 88309 89844 29755 43522 86822 37777 65396 57739
72887 46478 61340 73571 81729 24160 70696 11630 34288 23723
90417 25667 50094 22979 20880 31825 61293 93911 71263 39603
73755 62428 59358 39251 87135 62674 86991 50022 99152 38331
45245 90772 16975 62599 18605 29221 76322 99023 44889 16417
12002 55770
213 52 00000

S06g 10755 kHz, 22-08, 1120 UTC. The station switched between USB and LSB

[USB] 975 61254 (R2m40s)
975 975 9 [USB -> LSB] 975 61254 975 61254 (R40s)
975 975 975 6125 [LSB -> USB] 54 975 61254 (R25s) [2s silence]
975 (R1m) [USB -> LSB]
975 (R40s) [LSB -> USB] 975 (R1m15s) [12s silence] 975 61254 (R2m15s)
94018 49438 [10s silence]
975 975 9 [USB -> LSB] 75 975 [LSB -> USB] 975 (R20s) 408 52
94018 49438 88309 89844 29755 43522 86822 37777 65396 57739
72887 46478 61340 73571 81729 24160 70696 11630 34288 23723
90417 25667 50094 22979 20880 31825 61293 93911 71263 39603
73755 62428 59358 39251 87135 62674 86991 50022 99152 38331
45245 90772 16975 62599 18605 29221 76322 99023 44889 16417
12002 55770
408 52 00000 [47s silence]
975 [4s silence] 975 975 975 61254 975 [1s silence]
975 975 975 975 [3s silence]
975 61254 (R25s) 408 52
94018 49438 883
975 (R15s)
94018 49438 88309 89 [2s silence]
975 (R25s) [1s silence] 975 26514 (R25s) [1s silence] 975 (R55s) 9
975 975 975 26514 [USB -> LSB]
4 975 975 [LSB -> USB] 975 26514
975 26514 (R1m) 408 52
94018 4 [1m35s silence] 975 975 975 26514 213 52
21547 49438 88309 89844 29755 43522 [1s silence]
975 975 975
94018 49438 88309 89844 29755 4 [no further activity] fast pace

Full recomposed message (repeat of 2025-08-21):

975 61254 408 52
94018 49438 88309 89844 29755 43522 86822 37777 65396 57739
72887 46478 61340 73571 81729 24160 70696 11630 34288 23723
90417 25667 50094 22979 20880 31825 61293 93911 71263 39603
73755 62428 59358 39251 87135 62674 86991 50022 99152 38331
45245 90772 16975 62599 18605 29221 76322 99023 44889 16417
12002 55770
408 52 00000

M14 9463 kHz, 24-08, 0830 UTC. Slow beeps

M14 9463 kHz, 24-08, 0834 UTC. Slow beeps then 801 801 801 801 8

M14 9463 kHz, 24-08, 0836 UTC

801 (R1m20s) 80 [33s silence] 01 801 (R15s) 759 759 54 54 = =
94018 49438 88309 89
801 (R1m05s) 801 [5s silence] 801 801 801 [5s silence] 801 801
94018 ... 50094 [6s silence] 2297

801 (R1m50s)
20880 ... 33827 = = 759 759 54 54 00000 [26s silence]
801 (R2m10s) 759 759 54 54 = =
94018 49438 88309 89844 29755 [6s silence]
801 (R15s) 801 [3s silence] 1 801 801 [3s silence] 801 8 [10s silence]
801 801 801 00000 801 801 [no further activity]
Presumably repeat of 2025-08-21

11073 kHz, 25-08, 1507UTC

Brief warmup carrier but no further activity

E06

Test/training transmissions

10243/8167 kHz, 12-09, 2100/2130 UTC (2130 UTC. TX failure after callup, 7m silence then restart)

14721/12188 kHz, 13-09. 1100/1130 UTC

058 349 20
33692 45830 78019 83572 95066 99499 23226 08263 83580 26272
72531 04169 70844 05462 03824 42347 95221 19293 55260 23718
439 20 00000

10243/8167 kHz, 14-09, 2100/2130 UTC

14721/12177 kHz, 15-09. 1100/1130 UTC

058 167 23
02948 65705 55480 61836 93860 44294 18454 76388 12597 05643
52503 27986 01456 24896 26585 02595 71197 35516 81320 44910
28185 58743 45062
167 23 00000

10243/8167 kHz, 16-09, 2100/2130 UTC. Too weak, carrier visible only

14721/12188 kHz, 17-09. 1100/1130 UTC

058 439 26
76355 33773 47637 15125 89815 06570 17146 80419 55735 86825
38786 25885 46610 45189 81698 51685 10609 34200 42050 81012
50475 76536 53036 53849 11120 96726
439 26 00000

E07

17452/16272/14875 kHz, 1500/1520/1540 UTC

17452/16272/14875 kHz, 02-09/05-09, 1500/1520/1540 UTC

428 428 428 1 5661 137 5661 137
29175 33674 31960 98193 58878 09880 74997 90940 10074 37301
74622 77138 76501 09678 05406 84509 67292 62433 62696 11660
90212 61762 08102 59840 54849 02216 55516 85149 95382 29007
39921 50578 46105 66683 36372 99714 19573 14364 83909 14445
10500 76280 96816 07152 50151 54222 90169 55769 14184 01057
17743 44627 41753 92189 80649 45635 58927 66642 96186 86699
82934 66878 22772 08364 68432 71773 74564 08276 25773 20205
13205 18215 22187 78430 19943 29518 45991 06551 31275 36890
55282 37327 84077 98145 28412 88165 71372 36303 90218 83179
07510 32187 36872 64996 97788 79843 16831 66382 47847 67974
78475 41768 56547 52777 50403 85492 20379 34299 36967 93158
71563 95383 80963 85003 31311 06844 40778 74569 24712 59438
98099 27826 93183 36201 61701 22223 03946 53970 37938 30788
28313 84436 33660 14895 27161 06144 81220 000 000

17452/16272/14875 kHz, 16-09/19-09, 1500/1520/1540 UTC

428 428 428 1 867 188 867 188
04159 86647 92946 39464 89160 33142 98848 63903 68456 62509
28598 98571 81569 56069 77638 11484 26603 30605 74102 58322
30041 52692 70373 91620 86583 23129 11812 59466 96877 95709
10574 66792 11905 93489 94174 15364 72576 88844 80871 70807
86143 67820 66141 90104 80929 57312 49879 41082 28996 80318
77144 69939 05325 92164 46662 60987 80052 28987 50963 07024
71393 42495 28383 57154 69922 54118 44568 66758 70729 29151
70824 99211 00123 21485 56906 70266 06283 09468 94326 05285
38541 07640 00394 79517 79055 50931 27943 40098 98700 49849
17307 90974 91116 41002 25759 57754 67908 07668 29663 82663
48085 88967 70900 18220 90257 88221 95101 35150 63527 96453
25813 41618 98588 83988 78747 88502 39794 52065 40151 61317
31764 76538 46492 97802 46505 55182 11616 05359 01244 27106
97135 01036 89942 97525 37650 35052 30404 61076 92070 42692
27107 95957 19394 79339 49737 74119 01444 04178 31461 47036
90064 75936 42231 90754 32823 81791 33181 09656 57140 74421
24709 07993 00866 40979 39522 99585 15161 08743 76418 71559
12740 10862 03477 87217 86982 59320 37766 11062 84220 94332
15904 53738 91607 45130 13826 84817 70985 05711 000 000

17452/16272/14875 kHz, 30-09, 1500/1520/1540 UTC

428 428 428 1 175 99 175 99
79422 21899 59215 79779 33918 36827 21407 22756 90353 11540
84445 89676 15941 69014 62445 32839 25220 84107 02335 32825
85431 62484 60403 24782 61647 20568 43871 16337 90320 70055
93884 67799 20661 93168 57031 14306 69505 44118 21844 44088
29925 16365 61404 91343 44100 00913 76969 95230 42044 88533
66677 72474 43149 00801 53737 91346 88422 34788 61512 59322
42408 87889 28736 33124 63727 21068 90165 78778 69466 86901
77995 90358 61919 24663 65421 38344 57174 09377 13719 80471
89616 61005 16555 12021 62261 26352 24952 69849 28008 53840
25316 82199 49491 62661 80518 54923 36189 33335 77936 000 000

18287/17471/16135 kHz, 1000/1020/1040 UTC
--

18287/17471/16135 kHz, 11-09/13-09, 1000/1020/1040 UTC

241 241 241 1 331 129 331 129
02212 64900 96132 59625 23959 43444 22543 51192 62705 28643
45629 25247 73568 90500 16777 89156 64945 95790 98181 68666
12528 94027 53720 83443 02897 93197 39924 64669 36345 35885
04325 06238 93437 99699 39975 05765 48811 29047 70586 84389
63062 83331 61822 72223 32997 98136 13586 05271 36309 06081
47549 01184 75757 30688 05335 35129 42509 74687 54800 84759
51720 62612 32846 38998 89065 65991 60233 41796 40352 17220
99501 31701 17504 04263 32217 58450 83884 28367 50211 51409
59166 60361 60900 53580 92055 32896 95093 92642 79059 19501
49861 83847 47003 81601 12315 33784 52464 33037 00704 02568
64779 32546 08495 99877 74085 71830 95691 46206 74863 26466
63590 53465 00645 57436 83980 55744 37250 10617 82303 90011
89361 90886 60582 15724 98631 27633 39239 65007 80026 000 000

18287/17471/16135 kHz, 25-09/27-09, 1000/1020/1040 UTC

241 241 241 1 6866 147 6866 147
96181 42775 84693 65153 57006 13898 37647 58387 47417 93749
79530 49970 94359 28296 22949 19196 57717 27197 98280 89202
61780 27229 48028 04187 23247 85166 75972 87447 44674 47213
98942 79144 63796 07886 24488 20534 07342 00110 93779 50330
98189 72913 56816 76277 52093 66012 13180 17981 20823 85844
20554 73537 52998 17990 59875 21121 79361 80773 69174 51979
23127 27927 39585 63969 44682 51799 48989 81976 17784 06563
16200 85025 29517 30723 79878 01502 88167 67682 23089 27512

17442 35072 18662 22577 29326 86677 31646 70516 13117 41622
05345 95753 86086 81579 42925 73946 70786 59728 68051 85945
63466 35130 45743 07367 96733 72715 10474 30433 77400 29325
29999 36477 79165 46457 53366 53682 79057 64480 87813 65615
66024 50325 91805 87167 24621 13696 67372 72918 80236 24716
82266 64212 54062 22624 64240 58831 53958 31341 42512 12780
79872 71144 54901 80112 00321 81718 10828 000 000

E11a

25839 kHz, 01-09/03-09, 0600 UTC

942/26 Attention

19574 42605 90920 47530 62881 74004 05836 92960 62854 47348
84423 63801 37214 46295 45435 33604 84435 15242 81268 19096
02431 46188 98611 64659 88603 02364

Attention (msg rptd) Out

13117 kHz, 01-09/03-09, 0900 UTC

535/32 Attention

44044 73149 11810 29441 13161 38804 36412 15264 53027 04452
88217 19242 54155 55428 13452 36457 52409 36566 93350 92859
46514 95574 84959 95861 96834 69700 84030 69354 71639 09317
62580 87062

Attention (msg rptd) Out

5371 kHz, 01-09/04-09, 1300 UTC

319/32 Attention

10618 42785 43716 58698 68000 32176 21128 36783 98543 50800
98788 28192 67386 89863 90417 79765 03859 66852 63004 74942
38900 04508 38533 91961 87796 96871 60569 66835 59121 46565
54191 65494

Attention (msg rptd) Out

9399 kHz, 02-09/03-09, 1205 UTC

464/38 Attention

19197 73363 51915 78384 81911 97416 72510 17103 47194 26015
99130 78707 08869 71495 20321 83359 37090 29803 20625 16499
75112 80658 72036 60970 35740 11942 97262 34282 04348 04947
56791 34928 89692 38644 90906 57716 17008 99476

Attention (msg rptd) Out

17410 kHz, 03-09/05-09, 0745 UTC

346/36 Attention

48783 18234 19526 19772 46525 62902 81173 58260 19331 76996
76996 96922 89593 33924 29934 64321 57315 87637 81008 31052
74051 06218 12218 81422 42079 21302 95370 17511 71556 16896
21229 28231 70341 27977 73882 13136 04806

Attention (msg rptd) Out

10330 kHz, 04-09-2025 1530 UTC

262/36 Attention

41337 50824 49640 23902 28669 09200 85845 76181 84571 78599
22484 47483 70207 27313 46431 19274 02190 95997 18712 93762
39918 22157 57967 09048 32969 73715 95050 96313 87614 90119
01419 01579 57346 61620 41137 36837

Attention (msg rptd) Out

8680 kHz, 05-09/07-09, 0600 UTC

358/37 Attention

79039 86435 57383 82226 27428 02212 19156 97952 04237 64288
38340 62056 06867 80202 18961 08405 22786 23659 89225 26521
65053 76882 11360 13674 76407 33928 60156 49610 32840 59261
92356 49790 84267 02237 58991 29675 74955

Attention (msg rptd) Out

11116 kHz, 05-09/07-09, 1815 UTC

922/35 Attention

11065 27120 76827 17700 33951 77870 74460 55887 34799 88966
76821 14395 90890 90979 54748 62329 63230 48812 82098 17653
75178 83200 09439 10589 44452 05091 91198 35062 25842 01435
38782 00925 28827 96202 00624

Attention (msg rptd) Out

9079 kHz, 06-09/07-09, 0700 UTC

490/31 Attention

19778 72848 68672 19875 66989 70425 47842 81439 87082 94655
70402 00163 62207 75082 71268 41125 75705 50833 92439 37488
30516 70531 64192 19819 63283 89770 81386 17863 56719 09807
47581

Attention (msg rptd) Out

13470 kHz, 08-09/14-09, 1745 UTC

249/39 Attention

62023 17148 00359 93445 88093 20759 06561 69472 97907 90426
91601 21119 79795 59668 57955 84550 37807 72541 52136 65069
35281 20406 17822 54925 21749 31535 39554 14076 91507 64373
96377 94359 92492 16319 91484 74088 64083 41357 73438

Attention (msg rptd) Out

22995 kHz, 09-09/11-09, 0745 UTC

229/31 Attention

72761 31875 94467 77992 96421 29549 78556 48051 51362 17990
60438 82680 14179 18514 21834 03145 62910 02421 45097 09115
77220 35847 94595 76405 70052 83071 64167 02958 99155 82094
72065

Attention (msg rptd) Out

19184 kHz, 09-09/10-09, 0820 UTC

138/40 Attention

02278 98345 32396 24603 33484 01645 23914 22359 25773 46912
44370 44787 59298 43502 50456 78321 87344 02811 68100 23702
07577 19320 83917 00560 52290 71536 61292 70517 20159 64871
70509 78906 43215 46269 99711 13403 25134 39444 44490 80874

Attention (msg rptd) Out

18168 kHz, 09-09/11-09, 0845 UTC

151/37 Attention

64347 22048 19231 18386 47652 96148 25703 71085 75192 42247
89605 75476 02893 41690 96660 34405 60438 90469 80234 64947
44751 14457 91381 26877 02993 22552 10568 77019 41438 28697
60773 26060 41028 01453 98005 54633 18719

Attention (msg rptd) Out

9951 kHz, 09-09/12-09, 1000 UTC

300/29 Attention

74228 82589 98790 04909 59216 52551 68309 68644 82744 95644
23608 74444 01071 90552 09897 96442 83417 44817 20330 99117
08496 05872 97167 50789 49074 14148 95620 04608 84989

Attention (msg rptd) out

14972 kHz, 09-09/13-09, 1430 UTC

917/38 Attention

57784 79491 73072 35945 13485 91298 55368 76986 87164 18389
07165 51546 19892 09449 37361 83341 31666 56030 55244 30842
22348 88739 77817 18813 79394 52116 08790 73526 34092 99072
94977 44752 15233 34142 65221 27697 51556 71029

Attention (msg rptd) Out

6923 kHz, 10-09, 1715 UTC

972/37 Attention

97735 66274 54008 72741 77818 07633 93520 86866 41467 04286
85967 70610 77605 23583 97771 39759 13114 17836 63745 85179
25964 22333 40904 67264 12717 16775 45279 46135 16885 28318
31529 74690 46840 32749 25584 57832 63724

Attention (msg rptd) Out

6923 kHz, 12-09, 1715 UTC

972/37 Attention

97735 66274 54008 72741 77818 07633 93520 86866 41467 04286
85967 70610 77605 23583 97771 39759 13114 17836 63745 85179
25964 22333 40904 67264 12717 16775 45279 46135 16885 28318
31529 74690 46840 32749 25584 57832 63724

Attention (msg rptd) Out

8530 kHz, 12-09/14-09, 1910 UTC

614/33 Attention

26043 00575 12808 11212 13967 39366 67791 70577 12803 92700
56079 28478 17519 94644 65053 34463 80095 40253 78962 58386
69313 82912 42780 06145 99938 08604 13365 72528 85081 09248
94059 28903 60518

Attention (msg rptd) Out

10800 kHz, 15-09/17-09, 0645 UTC

416/36 Attention

69628 00712 39339 03174 77568 45485 84409 95201 95453 86970
90177 62382 90693 34019 89937 78733 12144 28283 64041 67172
42423 21272 06136 44410 19573 85731 28001 03748 47488 20970
64868 27363 22433 44865 37106 54400

Attention (msg rptd) Out

20170 kHz, 15-09/19-09, 0830 UTC

182/37 Attention

91180 53753 37701 49956 09509 65308 50085 05873 59130 99187
07124 92111 49937 65794 06825 15687 39694 53540 08104 60757
73627 10536 68878 25669 83871 45114 44400 99634 57490 53006
17404 02106 65575 85565 19105 96405 65192

Attention (msg rptd) Out

12202 kHz, 15-09/17-09, 0845 UTC

710/33 Attention

50335 81508 23498 49532 54475 24930 43951 94070 29976 25620
48005 60411 12622 89286 79042 24940 71956 77786 56863 92466
61869 84330 88831 13470 42242 29358 87075 48438 15371 17659
45037 31641 27409

Attention (msg rptd) Out

12385 kHz, 15-09/17-09, 1045 UTC

691/35 Attention

36943 09157 17582 59350 45329 61691 19899 68638 60558 92494
21802 32191 74991 26896 78459 47126 11175 48906 33507 28634
95231 49206 58559 19531 71892 16573 73621 69832 40614 36788
19512 80882 79430 17973 17746

Attention (msg rptd) Out

8180 kHz, 16-09/19-09, 0700 UTC

575/38 Attention

34973 13049 80866 35556 11411 16315 47212 56797 48758 87300
60594 08258 34388 91206 50422 22846 69549 14602 75955 20363
44227 01144 16223 73177 97484 84918 21675 31143 56949 42554
07374 81458 96385 87249 21535 46796 33953 44178

Attention (msg rptd) Out

5176 kHz, 16-09, 1605 UTC

238/33 Attention

77341 14319 12784 19428 69495 29330 59985 67467 69174 27736
84108 07236 64182 85289 92074 78868 48090 92291 47937 85292
84853 25522 73916 02486 62288 73375 12564 11362 79758 66278
92532 63992 95277

Attention (msg rptd) Out

12530 kHz, 18-09, 1230 UTC

337/36 Attention

33874 63921 26838 74957 99051 77093 74019 66804 14612 46149
12555 42852 50481 08321 18062 18405 47452 71032 67687 08676
02587 33107 89014 44987 39182 32700 59033 76274 20931 30903
72726 04567 07594 98797 65478 28451

Attention msg rptd) Out

9446 kHz, 18-09/19-09, 0720 UTC

431/32 Attention

47239 46546 72275 95656 75483 09194 80980 77977 97178 22910
22615 73543 28739 62140 05764 78716 09190 50705 19587 74325
28412 83351 62287 73438 23012 34534 28950 74515 16680 73319
41660 12374

Attention (msg rptd) Out

5737 kHz, 18-09, 2000 UTC

522/31 Attention

22403 75235 53733 52030 24137 10750 64084 83471 85370 14534
04127 51109 55194 81319 57367 87512 36965 03439 16448 20956
13868 30915 24094 01351 15739 82603 90602 23376 70631 35532
07930

Attention (msg rptd) Out

7317 kHz, 22-09/25-09, 1900 UTC

644/39 Attention

82030 22806 38782 82901 83549 09233 99621 66493 88650 95029
51883 53264 70981 45508 52372 84549 88119 24865 47625 67076
71282 76146 28956 85311 37506 00646 94950 84844 42525 49117
39995 84746 75401 84792 72402 02968 35206 30912 10570

Attention (msg rptd) Out

13470 kHz, 23-09/25-09, 0645 UTC

519/35 Attention

46272 75246 27853 22409 02419 27506 78221 78324 17806 31049
44276 39765 58373 30476 61855 90336 01385 15495 71015 52979
13099 37326 45588 27909 36894 80760 12269 66145 31845 17553
71155 71826 52329 20190 99237

Attention (msg rptd) Out

14666 kHz, 23-09/26-09, 0715 UTC

630/32 Attention

69676 28784 72321 47206 73353 81263 50851 77601 33155 39562
47883 80151 37266 29796 40890 59343 98136 22902 98490 81497
27426 15456 02793 81476 71591 78370 78621 78457 82106 87210
80882 96811

Attention (msg rptd) Out

12630 kHz, 24-09, 0315 UTC

250/32 Attention

13011 29049 17593 89068 04458 89596 33818 52820 10108 44112
13737 26539 06695 56901 58514 42984 38682 23050 43461 39304
35847 20547 11840 36438 69361 59718 90048 55149 60465 02941
65058 46211

Attention (msg rptd) Out

6940 kHz, 24-09/25-09, 0930 UTC

275/35 Attention

15661 44454 22156 52011 26746 42426 84867 69824 33016 15685
37931 34247 73811 16050 22684 44700 07867 63425 28920 54433
12846 88918 21668 26800 74986 40574 52952 73231 51390 17962
68454 61172 75748 24546 19887 15661

Attention (msg rptd) Out

4181 kHz, 24-09/27-09, 1610 UTC

392/38 Attention

00862 63643 01751 28548 28323 48978 43259 31639 00761 46011
86276 31416 98887 30069 45477 00561 35688 26640 72401 22756
23626 27544 94190 85279 17742 39311 22205 43463 14401 66340
34733 24105 48030 61232 48339 73463 75581 44727

Attention (msg rptd) Out

4505 kHz, 27-09/28-09, 1645 UTC

368/34 Attention

31222 23433 61599 21786 06496 68540 33305 39318 39018 37449
39739 38240 61433 27002 09323 33035 51664 95030 15888 53611
18186 75447 06452 86949 61307 61705 47722 50240 83159 23924
48581 44173 21023 58003

Attention (msg rptd) Out

S06**11616/9322 kHz, 01-09/02-09, 0400/0420 UTC**

480 579 60

05004 72339 35627 98506 37149 36662 16131 00087 63304 73458
03943 26951 79897 84081 76893 98591 11117 98139 01359 13569
58147 38433 50692 10402 47337 80518 96791 94163 06968 55339
17007 39756 27339 68360 83557 07766 83824 33643 27664 33868
27620 46300 95574 77691 73845 41770 38669 42106 41700 15337
04834 98844 26355 00353 23296 81421 07272 28577 00102 31270
579 60 00000

11616/9322 kHz, 03-09/04-09, 0400/0420 UTC

480 631 25

67294 37543 10527 68054 63291 25249 27796 48780 42232 13604
23285 22050 23947 80157 51712 71299 49805 27728 82032 90592
11591 97533 06829 50341 73834

631 25

480 257 30

79581 53893 84376 35435 29097 39965 85628 88254 86437 95124
14949 58630 37956 54728 42069 34946 99183 39472 60671 11661
47657 38290 96655 99405 17181 98390 52059 13313 83189 70856
257 30 00000

11616/9322 kHz, 05-09, 0400/0420 UTC

480 480 480 00000

11616 kHz, 08-09, 0400 UTC

480 480 480 00000

480 963 57

59509 27955 47001 86099 24876 79940 09932 02006 41830 07593
41390 19329 98824 95527 51248 96393 07279 74842 39985 35558
53868 28307 43399 00572 56037 11674 57905 36753 31670 45784
19817 61199 18860 59168 37084 15194 06714 85811 96900 96011
63130 47794 97633 10309 70484 77478 78505 16278 05164 58929
45464 46762 21890 93267 16687 30516 28760
963 57 00000

9322 kHz, 08-09, 0420 UTC**11616/9322 kHz, 09-09, 0400/0420 UTC**

480 963 57

59509 27955 47001 86099 24876 79940 09932 02006 41830 07593
41390 19329 98824 95527 51248 96393 07279 74842 39985 35558
53868 28307 43399 00572 56037 11674 57905 36753 31670 45784
19817 61199 18860 59168 37084 15194 06714 85811 96900 96011
63130 47794 97633 10309 70484 77478 78505 16278 05164 58929
45464 46762 21890 93267 16687 30516 28760
963 57 00000

11616/9322 kHz, 10-09/11-09, 0400/0420 UTC

480 127 25

41903 66572 52064 15113 57424 75061 72276 21701 01506 68650
93547 31683 54605 75387 59897 59077 31419 66775 93953 17581
78238 38308 68379 21465 96186
127 25
480 395 30
59979 62902 16477 90994 81001 64142 00498 86041 60164 25602
66001 54494 56604 26241 99169 59163 18915 56747 67088 78719
31644 70800 67819 26787 54477 99714 97360 55492 83777 78896
395 30 00000

11616/9322 kHz, 12-09/02-09, 0400/0420 UTC

480 480 480 00000

11616/9322 kHz, 15-09/16-09, 0400/0420 UTC

480 162 53

46522 97011 83446 55210 85249 82888 89961 53034 98555 60105
78188 48544 66262 40724 48262 16523 07766 24149 84281 87876
04715 29242 08663 90200 47609 46081 34658 79078 36017 55774
59189 71029 87083 91781 63209 14063 32038 41183 11774 56760
05372 09315 70994 01838 56376 96231 84092 55111 37741 58418
73703 05813 50880
162 53 00000

11616/9322 kHz, 17-09/18-09, 0400/0420 UTC

480 269 31

77627 36824 25795 67638 47091 46916 40797 18792 50662 39239
51998 08965 03501 69061 08082 18260 64590 98662 32224 96528
27992 97344 40943 51331 31382 27884 95064 96537 67817 49085
31259
269 31
480 573 24
05631 57223 06258 19973 22316 83059 57925 47011 22230 12414
84633 27373 73873 65006 45288 52140 50358 69951 79007 47641
72055 47732 56082 82362
573 24 00000

11616/9322 kHz, 19-09, 0400/0420 UTC

480 480 480 00000

11616/9322 kHz, 22-09/23-09, 0400/0420 UTC

480 713 50
36924 64224 87582 26468 95458 58673 18202 18997 93058 10403
40327 71137 81941 98743 16803 03049 67566 49306 42252 95726
69343 06285 48365 36213 40428 00177 86243 48060 13785 46852
65481 05480 66705 38902 54670 54631 20975 15211 73021 90468
20872 19696 27784 62594 65177 85133 77155 08554 22405 03029
713 50 00000

11616/9322 kHz, 24-09/25-09, 0400/0420 UTC

480 617 23
42243 22630 69786 18994 93827 45177 78988 14041 47731 75524
72280 75287 62963 71980 32487 48283 99375 69316 86080 03451
74388 56180 58984
617 23
480 925 31
98625 22726 67447 49583 65058 52062 88563 70211 57774 35292
61862 16894 64297 94292 92999 74233 64253 85276 28233 76554
14398 92675 68630 92662 66163 85635 94251 75549 07911 98036
10021
925 31 00000

11616/9322 kHz, 26-09, 0400/0420 UTC

480 480 480 00000

11616/9322 kHz, 29-09/30-09, 0400/0420 UTC

480 532 60
94685 44117 57985 10825 67129 07367 17956 22154 45526 29890
92168 45625 47075 69442 03164 37752 48461 55025 98851 27623
17752 15152 37597 61034 28837 18711 36280 59567 50526 89364
86035 18043 27605 79418 65364 88792 95925 14104 05281 26183
98784 42207 86209 89834 96757 53979 71304 29966 88175 52279
05881 03304 82431 87862 37648 93000 93313 94784 37433 30394
532 60 00000

Test/training transmissions

10755 kHz, 02-09, 0900 UTC

975 (R4m) 341 60
27454 76598 74151 38307 52072 66155 89333 26502 30937 32246
90249 41472 48285 84113 38411 42322 32334 01301 98796 65244
95561 78787 84275 39404 82893 11680 97790 91597 63733 99131
70729 31866 28791 72194 20927 37253 77616 75283 78735 75897
07810 55941 54594 38640 41818 42589 46541 70344 52272 14956
11112 18107 71793 96870 46040 38549 98215 26107 58227 31383
341 60 00000

11073 kHz, 05-09, 1500 UTC

352 (R3m15s)
[14s silence] 52 352 (R1m) 819 60
78014 74391 51030 26942 89959 46583 83581 94053 792-
[39s silence] 352 (R1m20s)
94053 79230 21162
95931 44806 36492 17446 89637 86764 73471 38576 77927 48735
22558 63275 13280 62427 63850 74824 01044 74284 03081 44431
85024 17184 48850 11180 15990 96686 62628 25750 39009 71522
79935 50092 60592 33004 26157 30251 81543 13052 75424 84516
06474 75523 26001 74099 65918 70525 90
[9s silence] 352 (R1m) [1s silence] 352 (R45s)
65918 70125 (group corrected) 90605 48507 11980 56407
819 60 00000

Full recomposed message:

352 819 60
78014 74391 51030 26942 89959 46583 83581 94053 79230 21162
95931 44806 36492 17446 89637 86764 73471 38576 77927 48735
22558 63275 13280 62427 63850 74824 01044 74284 03081 44431
85024 17184 48850 11180 15990 96686 62628 25750 39009 71522
79935 50092 60592 33004 26157 30251 81543 13052 75424 84516
06474 75523 26001 74099 65918 70125 90605 48507 11980 56407
819 60 00000

S11a

23004 kHz, 08-09/10-09, 0510 UTC

654/32 Vnimanaye
64492 76655 73579 33710 85850 62543 55234 22726 47114 24352
41242 40390 70902 87485 70436 82887 45090 43323 75405 65399
18307 39058 20286 06180 44543 54064 04591 47419 90886 25819
28345 73979
Vnimanaye (msg rptd) Konets

11420 kHz, 09-09/12-09, 1400 UTC

420/37 Vnimanaye
66786 92612 00520 55949 94840 24040 71286 09194 75195 70559
18702 30905 18629 49743 97134 61784 28508 92211 58863 73834
89902 87183 21129 66459 95879 52139 19310 94837 22180 96422
18261 21965 92182 39240 21151 28301 10086
Vnimanaye (msg rptd) Konets

6433 kHz, 13-09/14-09, 0830 UTC

371/39 Vnimanaye
90809 60740 67281 80687 03368 09005 40302 60735 21272 80268
45254 63671 84920 64016 93505 85873 61612 83623 03233 59333
40063 11606 68615 87225 90747 90772 21619 18417 96325 80068
98092 80093 60933 29252 85056 73056 31474 87456 08426
Vnimanaye (msg rptd) Konets

6480 kHz, 15-09/19-09, 0915 UTC

484/34 Vnimanaye
21277 41654 97982 73934 66200 04343 71727 95174 87438 62455
86909 23389 88560 76793 65499 92914 74470 25074 46072 61700
33787 17671 47266 98655 04024 62543 61494 26193 64042 42724
16196 86291 74725 47597
Vnimanaye (msg rptd) Konets

23353 kHz, 24-09/26-09, 0725 UTC

385/37 Vnimanaye
49160 24211 24638 70887 33723 28165 59581 82071 16037 88822
45914 69555 36867 29378 62167 36321 58263 33716 42183 35170
11973 20595 38969 78304 78501 06529 24308 31672 85837 76372
57193 64226 08498 79123 05181 34732 13436
Vnimanaye (msg rptd) Konets

10213 kHz, 24-09/27-09, 1850 UTC

288/39 Vnimanaye
49629 88785 79766 09378 54261 91201 80807 55771 88786 06900
90756 49300 48997 09818 79984 00637 07400 96938 05952 55260
95020 38859 19583 27957 38115 57055 83607 79087 80665 91294
46076 97773 09684 64199 72248 60514 45719 55063 83528
Vnimanaye (msg rptd) Out

8597 kHz, 25-09, 0700 UTC

470/38 Vnmaniye

54128 93255 91949 64100 11937 54130 34665 18246 37849 27708
50294 58395 54888 63037 49478 47848 11894 22502 17119 44319
71969 17090 01760 52599 49284 47850 58812 62587 55504 70223
07824 99838 19233 66342 89819 07308 53648 33115

Vnmaniye (msg rptd) Konets

V07**17431/16131/14431 kHz, 07-09, 0200/0220/0240 UTC**

414 414 414 1 4129 110 4129 110

69486 27531 10288 35023 44612 78102 19743 45399 08731 81766
26954 95055 94550 18345 79158 91387 43515 81665 53205 12614
68181 19877 93377 83970 73114 88729 27841 97327 71323 95136
02281 52802 98203 08014 42321 96025 10938 28034 69959 79577
40336 57745 59839 54773 07874 06668 83780 48073 51887 36037
54765 03908 22977 30954 97701 70907 47133 04065 98515 54330
41066 60807 79872 44246 46507 52256 43367 14886 49236 47061
59471 39703 15118 56652 08169 34971 23996 41706 69718 21711
28449 17182 37056 38023 03646 82878 11420 95984 43769 55764
52821 72866 68863 60584 2515? 07592 32253 65832 15327 52587
02668 87143 74818 30494 25665 81378 30444 42849 93214 07647
000 000

17431/16131/14431 kHz, 14-09, 0200/0220/0240 UTC

414 414 414 1 5193 98 5193 98

51192 67241 17843 81803 22124 53551 16947 59885 41614 23883
78845 37304 71207 89194 94534 03448 32788 12703 55896 30508
74584 84784 58729 86755 37220 82635 17184 38333 93369 90956
28705 46780 68026 71865 36465 54320 51818 21854 37758 05884
72245 45647 64367 22255 61149 94866 62009 82283 69290 93740
57440 66530 82552 73624 65930 02779 06976 18344 26326 32129
91783 44413 67151 74346 82975 69954 26855 49027 80434 22583
84886 90983 14284 92991 53766 93904 02708 29706 43043 32284
10943 99677 03052 08582 32688 73884 86574 05719 93960 02483
69537 63248 16480 62038 49506 08787 30059 22570 000 000

17431/16131/14431 kHz, 21-09, 0200/0220/0240 UTC

414 414 414 1 5870 108 5870 108

77384 00773 17759 96743 36995 52331 78203 95420 95392 24713
18366 93895 08875 27286 91553 68721 35969 86713 45503 98449
81150 98410 06734 07506 27443 30669 02147 85605 28569 66458
66417 80527 74301 89245 63256 01692 89312 05175 33804 79314
13430 17702 47823 90461 52042 52396 24237 66531 41438 03179
52537 15529 23825 78105 12232 97083 08053 15741 29599 54370
34731 37616 19090 12127 55466 81658 00382 46438 31595 61472
26110 30938 04128 82808 11469 44598 48934 80273 67034 99394
85564 77023 80443 98849 36711 71347 86989 47226 38183 35042
72432 78833 25259 85780 13735 93843 20481 68832 86103 27434
56702 02069 70043 46965 36400 98585 72801 14142 000 000

17431/16131/14431 kHz, 28-09, 0200/0220/0240 UTC

414 414 414 1 6847 95 6847 95

04854 61957 81554 77640 91860 08074 00286 85019 81532 83132
93446 88558 71915 67608 64801 31415 77318 38914 75193 57074
76415 08268 27769 00572 72027 46107 78399 06774 25864 08624
40515 66808 65088 86405 80912 51325 37651 11545 49772 81166
42944 09754 36434 52757 37041 58102 65767 15182 86193 95985
08363 99945 59701 21083 15746 43947 40727 58485 84623 03658
67969 48398 34091 59761 97663 98285 08215 05139 64611 33645
72872 94664 46606 51679 38234 87312 43472 29920 50823 55315

07809 29824 55961 82590 53380 46222 81898 09763 89574 72121
59837 74179 52480 97510 75984 000 000

Test/training transmissions

9351/10516/11431 kHz, 11-09, 0600/0610/0620 UTC

261 261 261 1 9525 51 9525 51
43856 63846 94990 16065 15587 52025 04226 48778 71185 84417
59969 37182 72597 73280 21028 14694 52788 34364 05811 07485
11177 60103 36318 70918 48836 03712 66705 63362 65977 65308
83644 33219 50708 60680 29256 47479 05623 58965 50658 67405
75681 18254 74186 98967 49485 82969 24595 53243 21448 40919
89839 000 000

9351/10516/11431 kHz, 11-09, 0700/0710/0720 UTC

261 261 261 1 7844 51 7544 51
66561 10598 90940 85877 52016 40733 88730 73186 80102 66256
91479 14857 15628 50925 91964 60887 09536 09646 55376 66269
58237 61526 34065 49751 48100 40333 95157 68126 59639 68168
57399 45708 04632 47181 76970 22703 06773 41642 75406 72790
78061 26045 61076 32398 32343 00851 77258 51466 75430 39102
98314 000 000

V28 - 앵무새 Aengmusae (Parrot)

3048.5 kHz, 01-08, 1205 UTC, AM
5487.4 kHz, 01-08, 1205 UTC, AM
3051 kHz, 07-08, 1203 UTC, AM
5247 kHz, 07-08, 1203 UTC, AM
3007 kHz, 08-08, 1208 UTC, AM. Parrot. Spur +-9kHz: 2998/3016 kHz
5267 kHz, 08-08, 1208 UTC, AM

MORSE STATIONS

MX

Beacon "V" for September 2025 were
Fast: 3657.0 (n), 5342.0 (d)
Slow: 4465.0 (n), 7604.5 (d)

M01

9736 kHz, 02-08/03-08, 0715 UTC. Sent only 49 groups

475 266 266 50 50 = =
15398 61870 81107 46198 09065 45537 62819 81612 21342 99103
81930 71184 91047 81960 71860 66186 01967 61349 09812 32142
19403 77195 18603 17509 61758 10693 17593 17604 16592 11095
90165 17590 81648 78050 01933 34189 75987 27243 45951 26360
10972 68109 81650 (1x) 81662 14352 88601 51760 99153 15473
= = 266 266 50 50 000

9736 kHz, 17-08, 0722 UTC

i.p. 67319 08904 87933
77312 89543 78900 21450 65732 76843 64152 6573_ 65804 76883
87987 31456 09076 98976 00541 1321_ 65783 87906 75643 54321
= = 108 108 50 50 000

9736 kHz, 23-08, 0715 UTC

475 = 141 141 50 50 = 70298... 61650 = 141 141 50 50 = 000

9736 kHz, 30-08, 0715 UTC

475 257 257 50 50 = 79141 ... 89779 = 257 257 50 50 000

5020 kHz, 02-09, 2000 UTC

463 081 081 30 30 = =
 54654 76854 86557 76456 76548 45689 96485 86543 65439 96456
 54576 68457 76854 76859 96854 76859 96854 76859 96854 76859
 54586 86456 86958 86950 06958 86754 76857 76859 96857 76857
 = = 081 081 30 30 000

5020 kHz, 04-09, 2000 UTC

463 550 550 330 = =
 55372 00517 55940 71528 65948 05762 86730 58693 01651 55047
 55403 86759 14275 85620 54050 17258 65504 63850 18504 55047
 54738 76950 13254 76859 55007 59448 42938 55033 76759 55463
 = = 550 550 30 30 000

5020 kHz, 09-09, 2000 UTC

463 643 643 30 30 = =
 57678 33545 26376 49490 57665 25436 11980 59878 54356 54350
 76789 28790 33452 12387 49878 37654 28795 66784 37580 47651
 48756 80898 67835 27648 39867 47635 10928 46658 27658 39868
 = = 643 643 30 30 000

5475 kHz, 11-09, 1800 UTC. Different repeat in red

463 051 051 30 = =
 43745 **73745** 75483 85743 75434 85473 75432 85743 75432 85474 75483
 93745 75847 75843 75849 95873 75849 95834 75847 75849 95347
 37485 85743 75847 75849 95847 75849 95843 75847 75849 95783
 = = 051 051 30 30 000

5020 kHz, 11-09, 2000 UTC. Errors in red

463 052 052 30 30 = =
 43458 85547 75847 75834 75432 86953 **(1x)** 75843 **(1x)** 75453 85743 75847 **(4x)** 54857
 75485 75857 76857 74328 85743 75857 74857 76859 **968485** 96845 09459
 89898 44384 85438 85748 85748 85748 85743 95847 75867 76857
 = = 052 052 30 30 (no closing nulls)

7115 kHz, 13-09/14-09, 0715 UTC

475 103 103 50 50 = =
 31956 01207 73040 35737 53543 17893 53468 96034 24708 87516
 69466 21381 44192 14413 49603 93460 11467 30136 92375 65916
 19128 72226 51227 25037 68150 74710 15117 77485 56340 79423
 34071 81373 11436 00985 58220 74750 83945 52229 51778 69873
 00404 01707 04160 23451 98421 12344 54821 38421 98123 87621
 = = 103 103 50 50 000

6260 kHz, 13-09, 1500 UTC

463 659 659 30 30 = =
 65740 85940 34251 00786 55640 34291 05532 56403 86950 34275
 86740 46754 05532 86750 12354 07869 65748 05843 86605 81423
 65748 06758 43286 05564 76843 07864 56382 06759 55463 07869
 = = 659 659 30 30 000

6510 kHz, 14-09, 0700 UTC

463 364 364 30 30 = =
 86987 36476 25386 50968 15275 49778 36475 69709 48769 11241
 37656 39767 11342 58769 30978 47587 37658 19870 32145 37658
 39867 36547 25433 19870 58769 47658 28759 44657 35468 35467
 = = 364 364 30 30 000

5475 kHz, 16-09, 1800 UTC. Different repeats in red. Groups 21 and 22 were 4-figure groups

463 758 758 30 30 = =
53628 76859 54638 08967 **08976** 43526 73895 16574 00555 76834 07869
68594 65748 43521 08976 54630 43526 87960 55432 76859 08978
5746 **5476** 5518 **5618** 76057 54200 76853 86950 54632 07769 65743 87964
= = 758 758 30 30 000

5020 kHz, 16-09, 2000 UTC. Different repeat in red

463 453 453 30 30 = =
65748 43520 55302 65784 65930 14253 76859 76859 65330 14355
06758 53642 65740 **65749** 43628 96054 53023 65739 65504 43526 07683
44352 06574 14354 00784 76852 05563 76892 07841 54631 00785
= = 453 453 30 30 000

5475 kHz, 18-09, 1800 UTC

463 704 704 30 30 = =
83901 82759 38992 74803 84004 85942 85940 83920 95038 90947
84930 99480 47485 78567 84930 37285 75849 58490 37121 74835
85943 94830 84932 74839 28190 13579 82742 75890 84903 88590
= = 704 704 30 30 000

5020 kHz, 18-09, 2000 UTC

463 689 689 30 30 = =
84738 73891 86950 95049 17544 85940 95421 85744 83929 5948?
75849 74839 10594 38277 48390 75311 83902 57484 75841 85949
74931 74842 24563 32415 67904 89301 85903 90950 86905 38901
= = 689 689 30 30 000

7115 kHz, 20-09/21-09, 0715 UTC

475 109 109 50 50 = =
91642 62908 18090 75398 09804 01864 56850 77542 34667 11518
71213 43655 15125 66744 66237 15333 05262 09349 22145 38142
81226 38904 40474 97291 51723 44781 29197 17211 67646 19274
09426 62430 82380 65792 69040 59514 47293 80569 97618 (1x) 94218
46502 51853 12822 32508 99475 19920 (1920) 51956 78712 26610 55220
= = 109 109 50 50 000

6260 kHz, 20-09, 1500 UTC

463 099 30 30 = =
03948 43854 85547 75483 85475 85694 95432 85695 85432 85443
03945 85490 (strong QRM) 847 (strong QRM) 95843 75849 95483
75847 93485 86958 89504 9 (strong QRM) 20 (strong QRM) 89543
85948 58943
= = 099 099 30 30 0 0 0

5475 kHz, 23-09, 1800 UTC

463 612 612 30 30 = =
14315 38716 26517 09187 11827 20917 36527 45371 37648 49817
54637 27615 43561 27617 31432 09187 54673 64763 65176 43561
38726 36517 46748 39817 46738 49817 46537 40938 50948 56749
= = 612 612 30 30 000

5020 kHz, 23-09, 2000 UTC. Different repeats in red

463 701 701 30 30 = =
46537 **45537** 20917 25276 28761 42651 65789 09187 21341 33901 22091
55472 10916 28719 36517 29817 20918 26716 28917 41561 66189
98165 28716 26517 77907 65178 20917 16527 **16517** 17819 16526 10971
= = 701 701 30 30 000

5475 kHz, 25-09, 1800 UTC

463 372 372 30 30 = =
84930 39280 37289 27189 95040 95093 95049 47389 85909 78858
94830 57482 84931 85948 87537 84938 92758 84930 73932 77389

38290 94094 38948 58747 85983 76765 85989 37289 17163 74831
= = 372 372 30 30 000

5020 kHz, 25-09, 2000 UTC

6463 229 229 30 30 = =
49028 83901 74891 94021 97583 85901 85904 93938 74810 00483
95048 29105 11849 85843 85904 81947 84821 96053 97850 93011
85940 95959 47388 27181 94027 85903 94038 85901 75847 85948
= = 229 229 30 30 000

6260 kHz, 27-09, 1500 UTC

463 463 463 30 30 = =
84091 37201 94038 19304 85940 83901 94021 84931 94031 49302
95048 48391 47381 48391 90489 90548 39010 95048 28190 94018
94017 37291 38195 38375 57564 91937 94030 75849 20218 75841
= = 463 463 30 30 000

6510 kHz, 28-09, 0700 UTC. Sent only 29 groups

463 727 727 30 30 = =
85901 09378 47839 73801 90478 29105 89401 89857 93017 10947
85903 83901 58490 74843 37381 95049 89401 75818 93018 90471
86905 75931 24630 13579
84901 90947 83910 94039 90175
= = 727 727 30 30 000

5475 kHz, 30-09, 1800 UTC

463 841 841 30 30 = =
74848 74736 65647 65641 75849 75894 85901 95809 89089 86959
89585 75847 74674 37281 84900 74833 75849 75831 85903 86958
85903 23561 56473 67431 74839 16253 64537 67894 78904 09874
= = 841 841 30 30 000

5020 kHz, 30-09, 2000 UTC

463 714 714 30 30 = =
99301 98404 80493 90948 29104 89473 85903 84901 89503 18274
86958 86759 85904 80958 47318 85901 85941 75847 89805 89573
90978 80869 75849 74381 64738 84919 75804 84930 24830 80499
714 714 30 30 000

M12

Starting with September, M12 fixed frequency schedules all got reassigned to brand new IDs and frequency cycles that weren't in the known pool. (PY)

10854/10273/9079 kHz, 0800/0820/0840 UTC

10854/10273/9079 kHz, 05-09, 0800/0820/0840 UTC

820 820 820 1 3240 101 3240 101
05483 23822 33281 96488 99514 23266 95687 68017 00093 24196
20517 15948 43494 32922 62810 98619 42149 02161 49994 87211
01764 59721 95835 94013 03279 49952 97022 99619 46202 18507
86770 59761 91302 12711 34035 42749 92557 49730 89553 51849
48782 63891 78569 77302 27330 77576 64237 62047 68175 81211
58671 47730 00229 14431 30856 74359 53174 27796 77725 05747
09416 91168 18052 35447 40260 97493 59241 83093 98347 88620
41847 72560 44968 69554 90263 40225 75523 93323 10943 24027
31102 50698 72364 84142 37971 08535 77076 24708 80934 29032
99760 00090 63472 34319 12012 45104 28678 86978 57282 94043
81287 000 000

10854/10273/9079 kHz, 08-09/12-09, 0800/0820/0840 UTC

820 820 820 1 9139 189 9139 189
33175 42508 49859 75518 49644 37421 15351 65497 72659 17624
01085 00063 82432 22358 44942 40083 88727 53155 17393 50533
04529 51561 01260 70974 50684 67910 38431 79609 34601 42133
51414 99453 67285 62546 40392 27273 61377 43901 92841 95146
49910 81433 51395 72748 27794 15435 08037 78143 23432 86407
68376 30588 71179 06165 61757 03419 11548 40683 49500 00978
93295 42612 86239 90609 47396 50463 00826 39339 46831 00993
92087 29601 07816 80857 65027 35617 88475 06280 20780 88927
30459 99282 19251 73018 83334 18553 53551 17955 75314 93108
19561 66432 89525 34491 93796 32725 49632 54363 20847 92833
32006 04176 17611 50301 95940 02825 18748 38261 75527 21982
14399 43573 51845 77739 19409 70006 59204 69346 27443 99401
34633 86460 77015 57898 67250 08097 69272 92258 74768 77489
60562 64226 90098 18424 14054 18636 49750 36478 08906 56805
84772 34813 94680 89215 02157 71385 82499 46000 57217 78379
31267 28152 19313 59948 44835 57151 13582 16371 52307 84163
62136 78974 50500 16195 39274 04142 29475 39257 65043 41632
96915 02955 30733 85840 88663 69116 40825 41688 03932 76636
23529 44128 54296 94117 86989 63644 96301 18875 39818 000 000

10854/10273/9079 kHz, 15-09/19-09, 0800/0820/0840 UTC

820 820 820 1 5166 133 5166 133
10692 98851 95412 24114 75145 52418 57964 83792 21025 81392
74306 23300 93908 93521 34644 70779 36066 62043 83471 03332
85903 41077 65327 96763 14275 09272 72393 68715 47969 83291
68657 25306 22231 77606 15545 23004 83675 44840 40821 62204
63327 01063 81575 28307 47932 89155 46120 03021 36205 25397
50460 79882 72474 58163 62462 95774 19520 31645 97399 64887
28692 52013 73770 70034 82053 76884 07990 13426 56027 55937
76165 28531 80901 31204 73600 83933 32912 87771 67591 42785
22092 63970 82894 77103 85598 35027 88157 67380 51546 51955
56401 67157 71396 60942 66952 49011 14009 66640 32980 28352
07805 69232 05220 55649 53379 89977 59259 71245 08003 58364
14156 20432 21829 97552 97661 08340 89563 02712 20169 47995
81167 12867 32164 07390 09888 52097 17381 76963 64761 49045
96842 18547 49077 000 000

10854/10273/9079 kHz, 22-09/26-09, 0800/0820/0840 UTC

820 820 820 1 6796 87 6796 87
19692 96615 86062 71260 32439 04896 49419 95078 97988 83933
62182 30809 60534 07470 33909 64264 75127 90476 56082 60331
67950 98848 32653 09995 83322 93214 40376 11743 43884 37425
49007 82622 52755 94541 99944 76616 65686 17332 40930 25356
73787 21245 64356 61046 07126 71819 45985 05308 47027 89843
98405 94692 28341 90782 21130 10051 83193 66565 02784 46490
71544 99098 91942 32905 16131 71815 56588 61254 07930 07620
27189 35856 63442 07017 48727 96155 52248 67614 50144 28576
52484 15374 18997 65909 43799 37845 19414 000 000

10854/10273/9079 kHz, 29-09, 0800/0820/0840 UTC

820 820 820 1 9488 178 9488 178
60912 92196 16916 85083 30283 53184 76819 32237 54324 54568
28100 49575 57796 69539 56899 61812 51924 64879 80967 04070
54942 94380 73646 41534 24860 14309 75913 42794 14500 56278
93645 83009 44655 85166 38195 56505 47560 50809 19045 48030
84644 61157 87486 69048 65307 70732 11618 27435 10269 15500
26900 78798 94423 47567 93352 03777 23529 70857 59209 47230
78464 73081 15799 69363 98188 43594 52569 11059 02813 21036
84481 59764 90908 67156 53535 64071 79220 66131 78854 91447
93682 87259 43314 29058 23007 02991 98008 01769 19834 88947
37930 63167 49994 83412 15317 70142 90061 90997 07064 77074

43542 85112 89492 61301 26175 61445 14554 41677 01228 50984
95335 38924 46481 72502 64505 04618 45227 38195 36468 03904
31243 83596 83520 32715 59109 05582 25907 23042 16328 02752
04157 57641 46103 92620 07602 85040 65709 66099 00248 99324
24702 31170 40765 00151 88435 78901 06542 16057 73882 95042
09642 81117 28999 79042 22553 78464 34560 20127 97522 32420
02157 70195 03847 85190 17355 15392 92409 26585 00305 50482
81997 35260 63113 06480 88084 99388 16561 95456 000 000

9287/10728/12198 kHz, 2100/2120/2140 UTC

9287/10728/12198 kHz, 05-09/06-09, 2100/2120/2140 UTC

271 271 271 1 8847 101 8847 101
67319 01579 04420 50837 13235 81049 18293 24811 75359 64252
45115 19623 72925 30077 95327 59789 73084 18884 01481 17109
69615 12381 34780 37090 26039 47451 26933 62346 70344 47653
42546 93824 49146 02101 46695 50960 69363 40097 08752 05586
77714 73888 39220 08413 56147 78020 11417 19309 16526 01637
99497 70460 20435 22100 90093 04571 83986 37451 83230 99470
18726 89788 55191 00063 58681 12028 61933 60861 41109 58920
15193 06857 30852 13026 41292 05422 64430 45654 08959 98380
45378 43178 83014 34433 95551 49230 93271 10414 88191 05993
69199 61419 79266 29615 33358 71234 14288 97177 22957 51422
49425 000 000

9287/10728/12198 kHz, 12-09/13-09/19-09/20-09, 2100/2120/2140 UTC

271 271 271 1 3070 145 3070 145
54069 47603 62815 35162 33259 93553 28863 32833 29527 27516
69506 72372 57914 80112 77733 71249 21459 66821 08700 64058
76933 04817 01680 64600 03839 19585 79253 41509 34661 73124
53318 94650 95426 77658 49310 07140 87466 21203 67217 34763
33066 68771 77188 17992 33310 17750 33050 93618 98187 95990
28126 94136 32765 78303 70581 97623 38408 84947 93077 85736
02513 55956 51837 79711 72436 40471 04565 53605 75729 21876
31996 42929 19650 91041 18138 63724 76862 56154 49998 32841
23124 09559 88362 33280 34741 37292 58270 96200 08364 71305
71672 70188 59237 37185 59477 53706 17767 74055 77228 88499
84390 01174 40287 15741 57400 31020 65539 15944 17853 35953
02870 14972 90329 51777 35570 13007 41185 28339 35357 48004
93923 26691 15235 91188 92738 49154 97557 00304 40120 26228
77259 54839 67448 56014 42925 53888 47144 73690 90801 66270
63013 15170 69310 09610 03409 000 000

9287/10728/12198 kHz, 26-09/27-09, 2100/2120/2140 UTC

271 271 271 1 5094 195 5094 195
42791 40874 01361 23957 15941 37500 18769 43323 59776 66465
63843 77464 11492 87938 98832 01638 69224 03553 29301 23554
72234 55159 29353 65352 77870 94340 50214 71750 71865 21127
45436 01861 09695 40182 04840 38802 04305 29925 66223 97885
02780 74223 40535 10635 57096 75230 45583 18309 95259 95579
43159 54813 21619 10021 45164 79168 85868 24487 44352 75816
53933 37437 51348 51913 86199 39984 45240 06884 66124 08594
56509 86046 72705 43035 27104 08488 71706 78210 99290 54860
58110 75365 43392 40487 69452 35158 43726 69600 41480 60170
03027 24395 82781 76438 44396 51176 23598 07931 61495 43622
41663 14101 84542 69463 57526 69515 26948 72746 21461 63215
09864 80133 68818 72873 50069 76736 61396 55250 71444 19476
17827 52210 76056 71011 21974 18007 95889 09204 52473 50277
08705 07367 52148 04704 58366 52813 48735 60908 37739 75310
26005 11907 09980 38397 10039 10244 50554 56363 87676 58325
54789 43699 94971 75229 74601 37415 71383 50057 02185 37865
82609 22938 84033 70185 17906 65793 86273 89396 73812 07621
45379 92386 73725 55624 07947 32947 17879 59381 38920 75510

16033 06420 71696 34174 80697 81109 55692 34793 11067 98299
38300 87306 62139 48216 67903 000 000

11109/10309/9209 kHz, 2000/2020/2040 UTC

11109/10309/9209 kHz, 08-09/11-09/15-09/19-09, 2000/2020/2040 UTC

385 385 385 1 6393 262 6393 262
84119 03834 27230 00544 14562 75424 97899 03870 42567 30174
89807 62657 66181 67924 22154 61210 94990 70200 85847 08801
45929 44935 77935 86277 00294 69824 97289 53934 83274 60396
10776 37313 50828 97263 79519 94601 72133 34130 83434 90265
55227 29400 55559 80296 85920 24599 09931 64674 89964 73816
16483 85057 16456 51810 96438 60706 37334 34957 12343 86101
50794 26022 87685 74360 99112 42555 87502 71124 01236 92245
45458 01295 83076 73915 62848 51331 78643 56689 47887 43206
14552 35487 37409 83278 26186 77154 91539 00979 16626 59339
26788 46225 34106 10117 82604 77039 85035 94437 21280 44353
62042 57737 78692 91714 75581 02482 07992 53822 88959 87628
62897 47060 87134 47846 51913 08504 50257 09626 20817 77243
82344 80985 37088 50850 10864 25694 64622 12230 96600 85991
48186 92961 95984 42012 85462 01236 59348 27537 69157 44847
91422 04429 37353 25017 09672 24257 25652 07264 55949 80560
61483 02672 41165 69949 73837 13079 60255 94709 03718 71852
54164 35675 21252 99848 38787 49026 41780 66938 90697 61574
18818 97730 76422 18151 44224 36274 45811 69157 92909 53769
29920 11978 21482 26198 76712 40018 34885 07411 92170 31201
82412 63897 01348 15096 17534 98766 72386 79882 95641 35918
31443 29582 91112 24468 55131 42174 00346 42578 33433 09886
15843 23484 81629 06810 44473 32548 63877 38312 54047 06583
29766 16349 43314 87189 24180 56209 88182 46111 91664 43615
31926 31475 81140 29060 54103 66799 04149 55196 31599 98010
90298 21804 01656 45418 16969 82626 83389 07189 33361 24658
70363 08897 53731 26210 07158 59059 43210 47599 78369 94497
41576 09067 000 000

13367/12167/10567 kHz, 1900/1920/1940 UTC

13367/12167/10567 kHz, 10-09/12-09, 1900/1920/1940 UTC

315 315 315 1 5122 179 5122 179
12513 87327 45992 31877 44803 78828 26246 28763 22562
74650 27603 22373 33453 35413 29350 57680 62936 35568
29857 16856 28527 43773 90180 06989 09391 11829 68122
61530 59201 92957 26188 92773 32364 01272 03719 23553
15928 02073 92622 92145 61378 69816 99670 21199 70111
67152 17440 22170 17267 29289 79500 46136 58417 49352
60671 47196 35865 12295 55643 34784 06921 77768 87752
77198 36116 92263 14574 40773 15398 36199 83320 94275
43464 55550 66438 51585 43839 33793 96238 30418 02153
03603 37335 47183 51971 46222 17875 35544 20383 99232
71492 79460 14212 07221 96773 72729 86216 21889 52207
91213 08313 92010 54703 35951 00727 37805 13020 75344
69432 40233 14313 11891 96167 69608 89840 54789 97373
62585 80490 26095 95456 33651 69353 70870 68609 13688
98192 89341 26029 44215 65533 51676 88853 35309 93025
62293 88735 29822 43520 09881 66016 74891 19549 74610
38315 19102 16131 29873 12698 40679 32850 17580 70596
76166 83847 57571 77368 38581 22922 70618 06930 78139
21855 94994 30901 00343 25130 22310 01117 74590 11451
93596 57300 33372 04659 61189 04946 33331 80392 000 000

13367/12167/10567 kHz, 24-09/26-09, 1900/1920/1940 UTC

315 315 315 1 8767 199 8067 199
14673 62504 39473 17258 08321 72740 83626 65597 66693 17679
92939 39864 66403 81886 11438 83277 45288 18451 72191 11760
92048 91667 47967 77040 40557 89241 43782 79427 25248 09548
85298 21033 92187 68008 42117 03397 75911 77115 10116 21833
18279 08904 47747 71962 70972 08450 87079 41347 56185 16092
20718 66962 68715 21725 15368 92028 22464 71800 72943 93732
11853 76326 36484 40871 74833 63469 63461 66124 74386 88104
03218 99788 84108 73135 99966 54057 27530 54882 62258 15743
60482 06369 14633 80984 71646 32852 76509 77458 17529 27839
39818 26674 76079 47995 74148 59215 23195 72133 35190 04767
74496 18409 40609 02453 48998 20555 12399 58344 95229 31797
93060 87172 06804 33958 62261 60624 63395 36261 47115 80436
35437 54599 27515 33431 41234 58300 06964 13885 77053 22002
80463 77128 13141 42356 68235 19801 47581 96591 35461 54890
79947 77890 62092 47402 58136 76217 58211 52223 90073 36287
40711 98732 47092 00543 70300 26136 27826 38400 43857 75298
12322 76077 04238 05355 75335 05587 21626 44045 12422 75917
59059 57730 03716 46679 33092 15452 10495 47612 39213 85956
52690 08540 60800 18889 16470 48884 26498 86446 34872 97031
86058 95842 94770 45248 36547 91232 64360 06357 32281 000 000

12135/11452/10627 kHz, 1900/1920/1940 UTC**12135/11452/10627 kHz, 06-09, 1900/1920/1940 UTC**

573 573 573 1 4482 59 4482 59
63894 44572 16151 80776 17260 48277 10586 71471 47250 31370
70876 75883 23439 61493 27089 06571 71737 57543 79882 67677
64564 73056 08069 81896 17001 63186 68249 30128 25089 70384
63818 49954 80010 33095 36850 31947 43148 68018 25794 81455
12970 28958 94730 20536 87771 87569 98524 98588 60916 98011
51819 78865 93232 54433 29443 90936 36502 34254 63774 000 000

12135/11452/10627 kHz, 13-09, 1900/1920/1940 UTC

573 573 573 1 4976 59 4976 59
08602 13617 41853 05068 34341 43864 34847 84657 89109 98835
23880 20335 63686 30191 14500 96171 85395 66818 68556 51202
34281 14191 24022 72192 13777 49548 78539 88711 52228 45302
45475 04491 36667 49259 03915 52918 13600 62419 04717 11319
83886 34206 84618 03207 84718 02180 77359 50316 01160 69849
96277 67433 81026 70816 65131 94410 89594 69659 91289 000 000

12135/11452/10627 kHz, 20-09, 1900/1920/1940 UTC

573 573 573 1 3014 58 3014 58
11584 27572 65134 82397 26845 15831 13157 09115 03998 95898
75368 52075 55920 44119 31641 93567 24702 16987 56928 82756
36095 60206 39521 52501 25041 66264 51672 01503 53160 87744
66117 34549 92733 69948 99291 12499 24859 59101 74610 69972
57335 71840 26848 88592 71573 36749 70405 96160 41298 37374
74064 98614 92489 23433 30738 51376 88050 12632 000 000

12135/11452/10627 kHz, 27-09, 1900/1920/1940 UTC

573 573 573 1 2536 56 2536 56
37059 04886 03658 15824 00148 89056 84717 87592 72413 61806
08432 78144 76346 63940 18910 34594 91827 85245 23130 35078
66903 81474 06702 89333 21521 57892 56493 71439 08800 12168
79140 55142 61588 32312 67263 75223 49426 30008 63531 69722
69126 94208 90618 46183 69017 94948 39121 82720 56944 54113
91627 20597 48542 89477 94557 55584 000 000

12135/11452/10627 kHz, 1900/1920/1940 UTC

12135/11452/10627 kHz, 03-09, 1900/1920/1940 UTC

573 573 573 1 7854 53 7854 53
20724 80015 35373 58200 70428 94782 07526 19553 74759 51026
67852 73575 70603 20662 51777 33124 10513 79149 27355 91087
68782 74698 89891 20704 78273 51891 10122 76488 8_079 48557
1315_09802 72710 1510_45760 0194_06_12 00672 43946 78536
85001 51710 6175_4_484 58604 72508 24756 54484 88_19 70376
23083 91555 07714 000 000

12135/11452/10627 kHz, 10-09, 1900/1920/1940 UTC

573 573 573 1 1663 56 1663 56
13622 44593 51009 01340 18666 19171 01913 80935 71783 08614
93975 62289 91000 79515 25244 00085 59073 10133 59591 32511
62019 47467 88324 55084 70751 74169 38896 00951 90983 67841
17746 04391 37704 39462 16324 29328 30858 25053 79306 77911
40789 03090 12515 59931 66325 69567 82169 29548 79643 62123
49524 31606 94882 25690 00518 66154 000 000

12135/11452/10627 kHz, 17-09, 1900/1920/1940 UTC

573 573 573 1 6449 57 6449 57
65525 04008 07963 79848 72884 73148 74476 31506 70258 90674
32469 94100 31390 06186 27218 95251 45209 38230 69554 84790
56629 31055 60064 07850 52374 81134 56819 38967 84310 28229
43125 75156 52283 07905 07670 26203 26839 01766 48500 19870
17479 41620 97011 58518 19198 94378 76502 68684 23829 48044
65462 35286 92131 42523 00689 34470 43943 000 000

12135/11452/10627 kHz, 24-09, 1900/1920/1940 UTC

573 573 573 1 3075 58 3075 58
17372 37028 50329 88470 81163 11354 68217 53654 02473 27178
77485 32609 12070 31483 28137 10417 26425 69079 55141 45076
99315 67356 22996 83895 88557 74219 36614 98669 61894 02429
28044 30095 58775 89445 77808 75683 58889 44902 42543 57695
38902 62900 78319 02276 16174 21969 46071 71093 04562 91386
93272 00107 63077 51445 68201 50014 14031 76432 000 000

10713/11568/12165 kHz, 1100/1120/1140 UTC

10713/11568/12165 kHz, 02-09, 1100/1120/1140 UTC

657 657 657 1 5730 60 5730 60
10017 74788 86558 67021 76600 89483 58184 85911 98637 72635
75844 00677 28419 81268 59199 77646 24126 13410 44763 96124
94268 35599 59014 55288 15213 29555 61121 81760 62441 79682
76773 33451 42209 93346 50305 94376 05936 99415 78662 94772
81055 31568 54538 66746 83371 06439 69228 86820 16574 08843
57647 80552 34148 92609 61319 74416 15774 31269 51807 47044
000 000

10713/11568/12165 kHz, 09-09, 1100/1120/1140 UTC

657 657 657 1 6993 57 6993 57
19762 16075 95336 11565 74475 58591 10279 23512 63341 17958
05384 24608 99927 67554 24792 94513 93352 50767 52239 88773
84224 28482 45214 34098 04256 80993 72135 98551 39745 50669
59715 57072 63345 68545 66302 81182 68535 53186 06021 90601
58601 39915 63396 24115 67151 87696 52395 10518 42461 25708
51146 32013 87578 73121 37782 91278 70860 000 000

10713/11568/12165 kHz, 16-09, 1100/1120/1140 UTC

657 657 657 1 6437 58 6437 58
12055 64945 13995 04159 01477 71006 52662 60937 20762 04117
65223 15446 05043 67736 98680 44932 36315 22855 57670 79551

99403 81790 94747 10640 92532 51894 49734 31459 42466 33848
19112 29926 54083 44450 90946 91038 85795 14340 86644 67514
07026 72976 67133 17410 65563 28516 58408 49934 61736 77095
77408 28801 91215 73454 38883 30264 70196 03354 000 000

10713/11568/12165 kHz, 23-09, 1100/1120/1140 UTC

657 657 657 1 6085 55 6085 55
52923 88554 87146 53316 37848 63606 83769 71920 38236 65395
31339 03883 51622 80485 83702 07172 28586 88999 00213 81961
07217 11357 57290 53574 76740 34146 06601 92421 16712 32553
95457 83005 71880 74122 42396 74123 92313 27293 54079 22838
69897 41181 08371 97195 66169 90973 66240 98337 34024 41932
32467 10608 53632 69451 10140 000 000

10713/11568/12165 kHz, 30-09, 1100/1120/1140 UTC

657 657 657 1 3579 64 3579 64
66824 07065 40402 60511 16901 46217 50803 99968 84513 44502
99605 31387 49422 25178 42991 58830 99805 71650 86488 52803
62815 20791 83568 85469 38959 81958 58260 23088 35477 25226
57460 64225 79975 11431 06433 92199 16401 54781 24840 55727
94620 56996 89574 74341 19955 86998 31145 64835 75509 97519
31956 35885 07413 56262 29764 56032 23495 54931 21551 34942
87955 27715 64491 59286 000 000

11564/10487/9319 kHz, 1800/1820/1840 UTC
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11564/10487/9319 kHz, 04-09, 1800/1820/1840 UTC

258 258 258 1 8106 78 8106 78
93940 76644 34435 26694 82118 21855 70097 83616 83911 22916
88794 47846 92032 06471 63043 37960 92555 14471 52463 35946
91855 09417 84959 03278 70091 68751 05845 26850 41328 56445
22345 31804 07309 20304 64809 36564 35517 82349 44556 05903
22297 04280 18554 77752 06799 97438 43706 88671 72038 23308
86697 81092 40632 20783 42374 84522 91684 31156 56601 13366
16010 43244 42288 27466 00571 56989 40537 71727 41660 26478
02443 10205 69913 46560 13648 87575 90861 07207 000 000

11564/10487/9319 kHz, 11-09, 1800/1820/1840 UTC

258 258 258 1 3472 83 3472 83
99923 83002 56061 56890 70785 97971 45891 90309 19810 10363
74916 52642 19950 68163 67625 95076 55433 93236 03112 48543
37956 65199 76867 17651 78162 80276 07507 15323 58651 19926
34406 37127 32577 14454 60235 88155 91552 64484 91372 05618
07068 85120 25579 12423 78516 51502 52842 86095 54178 02411
58522 01684 67211 60422 44702 34723 06134 38409 78727 90508
90464 30568 34417 99883 75956 37789 20064 05495 07927 79468
03523 90947 01864 97493 41474 52835 39619 64443 39133 26659
27433 21411 61143 000 000

11564/10487/9319 kHz, 18-09, 1800/1820/1840 UTC

258 258 258 1 9469 76 9469 76
47003 46054 44636 03241 00461 21241 59514 16399 68944 77932
90634 77361 16865 33627 37052 96695 43799 06585 75413 53095
02210 96342 30569 12601 25007 96182 72312 37840 21893 88763
51833 77506 87639 30908 05734 54972 49500 52314 63479 11996
78646 66157 10320 15941 09819 29903 57158 92478 39249 40513
09734 88358 96767 26249 36418 50659 15484 32034 78233 78277
48928 21674 94505 80180 26098 13127 89720 85955 27892 82078
47195 91484 43104 63416 74447 36051 000 000

11564/10487/9319 kHz, 25-09, 1800/1820/1840 UTC

258 258 258 1 2975 75 2975 75
10850 54424 66362 28887 64774 95276 41937 29773 09091 75917
87412 94015 16668 63603 55652 79196 23386 59559 20078 69136
90101 24352 92305 28035 72526 35378 77002 98282 88164 39430
24094 77725 89840 12293 63711 83719 73962 80666 76032 12249
74212 36853 17962 66862 55349 36777 59404 24610 11935 31314
86282 98500 80351 96117 28538 86497 62118 38327 56360 29396
18273 43653 41607 69660 51823 09686 04174 04375 99890 71931
05233 42719 83525 07829 94922 000 000

17437/15937/14537 kHz, 0300/0320/0340 UTC

17437/15937/14537 kHz, 16-09, 0300/0320/0340 UTC

495 495 495 1 125 ____ 125 ____
6172 61331 16087 08518 59660 79400 67233 64282 44578
38803 15188 65159 23954 91231 96752 40848 73291 31801 85012
76595 32942 07139 29553 55008 54784 57731 64536 15264 02033
77033 91073 10702 80798 32566 57421 28371 11483 67395 03976
45694 52026 ***3***3638 86285 94526 16686 47736 04601 20117
69021 45016 69307 69010 37423 67971 84773 28526 69701 42477
76130 52937 90084 08117 50604 68806 60409 04827 61352 38521
72312 97837 58227 99296 09366 40464 93739 70484 78447 97138
84602 75171 50358 15942 50216 46722 62230 75870 60186 07276
61343 86616 81453 58948 58549 71274 91105 41774 78480 50054
48389 04653 55232 12278 59338 00258 62135 79355 30863 66760
82260 83383 49430 26807 15313 66261 49638 11926 24609 61479
95734 47590 19863 35169 04022 77322 33898 52064 000 000

13409/12195/11526 kHz, 1230/1250/1310 UTC

13409/12195/11526 kHz, 01-09, 1230/1250/1310 UTC

397 397 397 1 4936 143 4936 143
19627 77618 28487 27397 85857 78671 14103 66071 92790 19574
77837 83707 11708 86842 66778 95530 70345 25410 56559 91846
07968 21453 18604 19603 91548 51790 72018 75620 60703 02481
93180 12192 64036 10478 96694 09631 42908 29216 44926 57627
36235 88444 18586 16801 28259 27957 11787 25759 57428 49739
40629 44918 73321 80159 71545 98173 59014 08884 35848 34066
06653 38482 05368 90309 26393 65645 19670 01230 90146 57146
52621 41129 80482 98930 55610 19523 02867 01802 91342 63591
40003 46258 18191 10963 61850 48262 38869 83876 38976 98520
50616 34024 93367 10859 50974 97752 83075 28275 90407 62613
08286 10557 35611 00181 97116 99499 64434 74389 24548 52022
95305 57212 17540 72255 94062 60393 20290 94404 28459 78129
26775 35793 62297 91624 06530 78597 47761 69622 47956 57857
36447 74591 11393 28729 55304 29445 10646 17910 13845 62350
83826 64478 59327 000 000

13409/12195/11526 kHz, 08-09, 1230/1250/1310 UTC

397 387 397 1 2743 142 2743 142
15159 21366 65190 17621 67222 14321 58520 78059 17342 74075
14127 12115 07658 18994 18301 29671 32517 28082 72334 18509
57601 32496 23684 39975 41780 16528 62038 87738 05596 02590
82404 47679 13460 42183 97038 27994 72703 25855 84974 38085
36035 23318 47811 49248 71909 14422 70043 01578 17408 17177
47930 60914 13158 60944 16921 82661 97680 25215 75839 50694
52282 70781 72462 14751 91670 66447 98654 65474 21955 90306
56967 06661 43106 34248 82472 34282 84684 74435 68064 27358
46483 60459 70329 88418 54659 21490 34520 52514 25261 14376
30312 47488 50015 34279 85802 65253 50855 33060 57577 05462
15766 04568 79622 27100 60209 41269 17807 78909 78470 82637
97976 23245 57149 48481 04210 91821 00452 84043 60091 70179

31926 46139 40213 07578 59993 09478 56644 08826 48444 17219
83426 51624 16857 62602 11591 41915 80836 43228 28209 13390
03682 55610 000 000

Training/test transmissions

In August, Russian operator 7 M12 tests made extensive use of frequency cycles and IDs taken straight from the regular M12 fixed frequency pool. Starting with September, that pool has apparently been completely wiped out and renewed. ID 657 and the associated cycle used in the following test transmissions are part of that new pool and now in operation with a regular fixed frequency schedule. As for ID 826, it might also be, but it has not been logged in regular operation yet. (PY)

10273/9080 kHz, 01-09, 0820/0840 UTC

820 820 820 1 3240 101 3240 101
05483 23822 33281 ... 57282 94043 81287 000 000 (mostly too poor to copy)

9324/10593/11438 kHz, 02-09, 0630/0640/0650 UTC

826 826 826 1 1931 72 1931 72
50563 12441 90641 49413 64386 42551 54805 48145 49670 21838
87639 42347 39609 85906 51602 38373 14149 56764 29242 73087
17234 24890 91702 90246 51548 04584 03756 62061 96600 59884
72754 31623 80989 76577 50153 92219 74340 46990 56282 70376
84947 66095 10766 50122 44552 97530 18955 91278 74178 85630
80064 87311 38869 30226 03725 25672 20738 00395 97863 59802
38795 92742 51544 89785 49082 56015 61357 63031 35752 59381
64031 67158 000 000

10713/11568 kHz, 02-09, 0715/0725 UTC

657 657 657 000

10624 kHz, 04-09, 0755 UTC

687 687 687 1 2227 27 2227 27
64290 17018 71921 88783 67544 69150 65837 03051 99678 71766
85940 98843 26402 23640 57273 60867 41482 05428 25619 24555
35351 12204 80169 01681 69468 90170 (55s silence) 000 000
(no repeat found)

9287/10768 kHz, 05-09, 2100/2120 UTC

271 271 271 1 8847 101 8847 101
67319 01579 04420 50837 13235 81049 18293 24811 75359 64252
45115 19623 72925 30077 95327 59789 73084 18884 01481 17109
69615 12381 34780 37090 26039 47451 26933 62346 70344 47653
42546 93824 49146 02101 46695 50960 69363 40097 08752 05586
77714 73888 39220 08413 56147 78020 11417 19309 16526 01637
99497 70460 20435 22100 90093 04571 83986 37451 83230 99470
18726 89788 55191 00063 58681 12028 61933 60861 41109 58920
15193 06857 30852 13026 41292 05422 64430 45654 08959 98380
45378 43178 83014 34433 95551 49230 93271 10414 88191 05993
69199 61419 79266 29615 33358 71234 14288 97177 22957 51422
49425 000 000

9445/9702/10250 kHz, 12-09, 0800/0810/0820 UTC

687 687 687 1 2065 30 2065 30
69589 03530 45714 65012 44045 57843 66546 12821 40152 10560
69775 16558 90151 99893 36450 93481 71883 51008 00716 51108
55730 78006 06123 86738 54478 74929 81904 91800 03575 57955
000 000

11497/12193/13389 kHz, 17-09, 0900/0910/0920 UTC

687 687 687 1 4425 59 4425 59
32349 85353 03693 68959 68868 55638 75239 02934 84481 38651
70320 58802 57436 05078 39935 00826 45059 14678 91926 47582
21468 06105 51900 69756 75173 45444 38264 52543 31367 09144
63690 69008 27424 47028 84690 35264 53047 33346 23544 17454

25328 52781 00163 93854 08666 26084 80575 70023 98135 11678
97336 07414 17953 67912 77431 26243 33445 33936 93784 000 000

M14

12211/10243 kHz, 01-09/02-09, 0500/0520 UTC

952 748 748 51 51 = =
03859 48110 83602 17232 16140 39113 94336 88058 48939 60800
13001 41414 60311 62794 59461 10385 59505 85449 81077 34679
34592 91759 08973 45707 96602 81776 58896 14646 38603 81741
25617 68178 33149 25109 76802 01601 16556 67653 37298 43975
33425 03842 11731 55023 39861 76673 02485 58445 88816 98148
80760
= = 748 748 51 51 00000

12211/10243 kHz, 03-09/04-09, 0500/0520 UTC

952 316 316 23 23 = =
19648 41690 46479 40515 72113 16982 99784 51324 47838 05494
99093 68253 17514 94541 25309 92374 44281 63767 71332 36719
10847 89472 07520
= = 316 316 23 23
952 874 874 29 29 = =
93035 24497 09611 75417 36615 83329 45056 42167 33494 61001
87990 70614 49201 29861 98659 29547 40458 12361 58542 47431
29930 98557 76594 37371 99820 57851 66679 78043 65260
= = 874 874 29 29 00000

12211/10243 kHz, 05-09, 0500/0520 UTC

952 952 952 00000

12211 kHz, 08-09, 0507 UTC. Late start. 95 off

10243 kHz, 08-09, 0522 UTC

Late start. Inverted morse. Several restarts. Normal morse at 0528z: 601 601 EEEEE, 18sec silence, 601 EEEEE, 13sec silence,
601 601 57 57 = =
09734 03695 42546 41936 88980 21883 35750 81666 68189 80761
44601 99670 34298 34, briefly inverted morse at 0531z, then off.

12211/10243 kHz, 09-09, 0500/0520 UTC

952 601 601 57 57 = =
09734 03695 42546 41936 88980 21883 35750 81666 68189 80761
44601 99670 34298 28370 51067 89662 50192 25690 67850 29085
47787 30821 52999 20950 80983 82467 21110 16586 93158 56187
18296 69237 78905 91820 53114 37445 44699 15558 00640 94153
98167 05073 21863 82477 20673 71150 65613 96060 02874 54270
45194 30977 47968 59554 06901 97100 72296
= = 601 601 57 57 00000

12211/10243 kHz, 10-09/11-09, 0500/0520 UTC

10-09: Sent 28 groups in the first message. No closing nulls at 0500z.

952 170 170 27 27 = =
50474 23885 44203 45041 35159 88743 63456 55088 49117 51270
10376 14128 31672 26511 27345 44900 25601 48745 62694 48691
10557 57322 93612 88679 63531 17748 25344 54621
= = 170 170 27 27
952 483 483 25 25 = =
25785 14011 72868 54454 17171 21126 99916 49700 06591 00094
83682 61123 66432 11653 96884 72414 90607 77682 85508 71487
83609 20230 32718 13783 95758
= = 483 483 25 25 00000

12211/10243 kHz, 12-09, 0500/0520 UTC

952 952 952 00000

12211 kHz, 15-09, 0500 UTC. No transmission

10243 kHz, 15-09, 0520 UTC

12211/10243 kHz, 16-09, 0500/0520 UTC

952 368 368 50 50 = =
92466 76387 28697 23821 42532 52659 16635 80685 34119 53830
73346 91861 94796 14701 32574 99769 80197 06074 86585 32034
34868 57793 95129 15005 03621 34230 56593 98311 98054 85639
58559 76391 47942 23842 49946 17921 92161 95649 01909 39110
88874 52497 49708 81764 49628 39684 32717 82080 27065 53701
= = 368 368 50 50 00000

12211 kHz, 17-09, 0500 UTC

10243 kHz, 17-09, 0520 UTC. No transmission

12211/10243 kHz, 18-09, 0500/0520 UTC

952 470 470 38 38 = =
00825 49106 45425 15562 03917 33756 46934 76039 79053 13702
70633 27547 67577 40857 77033 52407 54912 86354 16889 54859
89571 04358 94010 93863 40942 89724 97308 62100 88021 90450
06774 34594 56305 60836 03065 35410 44996 66316 = =
470 470 38 38
952 618 618 20 20 = =
54423 15913 78062 44481 90679 96030 38744 77932 56095 53662
78409 27463 28035 76101 10855 23654 42387 32709 07470 21375
= = 618 618 20 20 00000

12211 kHz, 19-09, 0500 UTC. Not monitored

10243 kHz, 19-09, 0520 UTC

952 952 952 00000

12211 kHz, 22-09, 0500 UTC

Unreadable inverted morse

10243 kHz, 22-09, 0520 UTC

Inverted morse. Stopped, carrier at 0522z. Off at 0524z. Several unsuccessful restarts between 0526 and 0530z, then off. Brief carrier at 0535z.

12211/10243 kHz, 23-09, 0500/0520 UTC

952 374 374 50 50 = =
59473 95219 61636 31290 88124 43782 47675 61099 52740 32098
52448 86008 07783 86265 50376 72714 34766 28961 05398 68730
85286 63366 34375 38118 53460 04071 05348 71541 19928 65883
25346 44074 34644 46495 9744& 19197 30611 63919 51728 22424
85762 34664 79891 32996 75183 03558 28121 67075 80841 61174
= = 374 374 50 50 00000

12211/10243 kHz, 24-09/25-09, 0500/0520 UTC

952 137 137 20 20 = =
18016 86933 26564 94608 82539 77086 30929 64004 65327 59814
37239 02573 11508 48717 28323 73547 57736 04502 69795 90427
= = 137 137 20 20
952 608 608 37 37 = =
27964 17385 37180 13404 74720 77136 67641 33495 60486 64462
56420 36478 62545 68978 42588 47664 32236 46282 73643 27084
57375 48808 53529 78314 50164 84121 27857 43349 65274 24090
23522 69438 77795 13377 84906 58836 75733
= = 608 608 37 37 00000

12211/10243 kHz, 26-09, 0500/0520 UTC

952 952 952 00000

12211/10243 kHz, 29-09/30-09, 0500/0520 UTC

952 840 840 53 53 = =
13462 93645 67837 65911 20703 85939 39328 21429 28359 73288
15071 63398 95770 04720 76796 58445 20986 70053 46533 56345
26006 19896 55309 77251 11661 33768 52567 02530 30555 78576

67240 23897 51515 24592 56432 30555 19974 11150 02625 38988
95742 79228 45361 95133 42590 13125 58341 03595 33086 58388
07861 63603 77123
= = 840 840 53 53 00000

Test/training transmissions

Poor signals most of the time.

9463 kHz, 16-09, 0840 UTC

801 message (barely audible)

10755 kHz, 26-09, 1110 UTC

975 243 243 60 60 = =
37556 48428 33959 10844 33345 81098
975 (R)
48428 33959 10844 33345 20829 81098 61582 09010 42897 79612
42178 87958 96698 39902 80004 58892 96016
975 (R)
87958 9669_ _____ 80005 5889_ 59____
975 (R)
39002 80004 58892 96016 4_193
868_8 04851 20102 _6619 1__2_ 358_3 26788 57592 96702 68704
90954 38444 07208 83221 2731_ 08196 40873 02142 05265 66499
34503 77236 97386 20030 15100 86654 85132 04525 78813 73422
70035 34659 09048 79973 63941 48934 69673 56755 56678 41776
= = 243 243 60 60 00000

9463 kHz, 16-09, 0841 UTC

801 (R4m) 793 793 52 52 = =
... 70194 = =
793 __ 00000 [15s silence]
801 (R4m) ... = =
__ 52 00000 [7s silence]
801 (R4m) 793 793 52 52 = =
72321 ...
= = 793 793 52 52 00000 [17s silence]
801 (R4m) ... [interruption]
801 (R4m) 793 793 52 52 = =
72321 ... 519 [no further activity]
Very weak. Presumably the same msg rptd over and over

10755 kHz, 26-09, 1100 UTC. Fast beeps

10755 kHz, 26-09, 1102 UTC

[unreadable Morse interrupt0ed on and off for 25s, then 30s silence]
975 (R3m30s) 243 243 60 60 = =
37556 48428 33959 10844 33 [14s silence] 9 81098 [11s silence]
975 (R1m15s)
48428 33959 10844 33345 20829 81098 61582 09010 42897 79612
42178 87958 96698 39902 80004 58892 [18s silence] 96016 [10s silence]
975 (R1m) [22s silence] 975 (R1m)
87958 96698 39902 80004 58892 9 [6s silence]
975 (R2m20s) [1m20s silence] 975 (R50s)
39902 80004 58892 59889 96016 4_193 86878 04851 20102 _6619
12027 35823 26788 57592 96702 68704 90954 38444 07208 83221
27317 08196 40873 02142 05265 66499 34503 77236 97386 20030
15100 86654 85132 04525 78813 73421 70035 34659 00048 79737
63944 48934 69673 56755 56678 41776
= = 243 243 60 60 00000

M23

7441 kHz, 03-09, 0847 UTC 50505 55550 05550 05500 55005 (R 25m)

23, 24, 25, 26, 27, 28, 29, 30 September

12170 kHz, 1500 UTC	8 (R16m)
12170 kHz, 1520 UTC	8 (R16m)
12170 kHz, 1540 UTC	8 (R16m)
12170 kHz, 1600 UTC	8 (R16m)
12170 kHz, 1620 UTC	8 (R16m)
12170 kHz, 1640 UTC	8 (R16m)

M89 - Chinese Military

See the Logs section for all the logs.

6352 kHz, 23-09, 1713 UTC, i.p.

FFF NR 2343/EX 0103 RMKS 1361 TO 1368 = F4D5/BBM7 AR

NR 6544 CK 65 24 0924 0110 RMKS 1368 TO 1461 =

71031723 23-09-2025 M89 CW (JPL) (In tfc) M89 (Remote tuner Japan) JPL TUE

023 RMKS 6908 TO 6702 = ABC6/FGK5 AR

FFF NR.. (Other station to weak to copy)

UM04 - PROMRCh

4735 kHz, 01-09, 0700 UTC

VVV VVV PROMRCh = 01 09 =

1000 0790 0830 0940 1310

1200 0810 0840 0940 1340

1400 0840 0870 0980 1330

1600 0830 0860 0970 1330

1800 0800 0840 0950 1310

2000 0870 0890 1000 1350

2200 0730 0750 0830 1110

0000 0640 0650 0710 0930

0200 0590 0600 0650 0840

0400 0530 0540 0600 0780

0600 0530 0550 0640 0890

0800 0730 0760 0880 1240

= ABV

VVV VVV PROMRCh = 01 09 =

1000 0790 0830 0940 1310

1200 0810 0840 0940 1340

1400 0840 0870 0980 1330

1600 0830 0860 0970 1330

1800 0800 0840 0950 1310

2000 0870 0890 1000 1350

2200 0730 0750 0830 1110

0000 0640 0650 0710 0930

0200 0590 0600 0650 0840

0400 0530 0540 0600 0780

0600 0530 0550 0640 0890

0800 0730 0760 0880 1240

= AR

4735 kHz, 02-09, 0700 UTC

VVV VVV PROMRCh = 02 09 =

1000 0800 0840 0950 1320

1200 0820 0850 0950 1340

1400 0850 0880 0990 1340

1600 0840 0870 0980 1340

1800 0820 0850 0960 1330

2000 0880 0900 1010 1370

2200 0730 0750 0840 1110

0000 0650 0660 0720 0940

0200 0590 0810 0660 0840

0400 0540 0550 0610 0800

0600 0530 0550 0620 0860

0800 0740 0770 0890 1250

= ABV

VVV VVV PROMRCh = 02 09 =

1000 0800 0840 0950 1320

1200 0820 0850 0950 1340

1400 0850 0880 0990 1340

1600 0840 0870 0980 1340

1800 0820 0850 0960 1330

2000 0880 0900 1010 1370

2200 0730 0750 0840 1110

0000 0650 0660 0720 0940

0200 0590 0810 0660 0840

0400 0540 0550 0610 0800

0600 0530 0550 0620 0860

0800 0740 0770 0890 1250

= AR

4735 kHz, 03-09, 0700 UTC

Not monitored

4735 kHz, 04-09, 0700 UTC

VVV VVV PROMRCh = 04 09 =

1000 0830 0860 0980 1360

1200 0850 0880 0990 1350

1400 0880 0900 1010 1370

1600 0870 0900 1010 1370

1800 0850 0890 1000 1380

2000 0880 0910 1020 1370

2200 0740 0760 0840 1110

0000 0650 0660 0720 0940

0200 0600 0610 0670 0860

0400 0550 0560 0620 0810

0600 0540 0560 0630 0860

0800 0750 0780 0910 1280

= ABV

VVV VVV PROMRCh = 04 09 =

1000 0830 0860 0980 1360

1200 0850 0880 0990 1350

1400 0880 0900 1010 1370

1600 0870 0900 1010 1370

1800 0850 0890 1000 1380

2000 0880 0910 1020 1370

2200 0740 0760 0840 1110

0000 0650 0660 0720 0940

0200 0600 0610 0670 0860

0400 0550 0560 0620 0810

0600 0540 0560 0630 0860

0800 0750 0780 0910 1280

= AR

4735 kHz, 05-09, 0700 UTC

VVV VVV PROMRCh = 05 09 =
 1000 0830 0860 0980 1360
 1200 0850 0880 0990 1350
 1400 0880 0910 1020 1370
 1600 0870 0900 1010 1380
 1800 0860 0890 1010 1400
 2000 0880 0910 1020 1370
 2200 0730 0750 0830 1100
 0000 0650 0660 0720 0930
 0200 0600 0610 0670 0850
 0400 0550 0560 0620 0800
 0600 0540 0560 0630 0860
 0800 0750 0780 0900 1270
 = ABV

VVV VVV PROMRCh = 05 09 =
 1000 0830 0860 0980 1360
 1200 0850 0880 0990 1350
 1400 0880 0910 1020 1370
 1600 0870 0900 1010 1380
 1800 0860 0890 1010 1400
 2000 0880 0910 1020 1370
 2200 0730 0750 0830 1100
 0000 0650 0660 0720 0930
 0200 0600 0610 0670 0850
 0400 0550 0560 0620 0800
 0600 0540 0560 0630 0860
 0800 0750 0780 0900 1270
 = AR

4735 kHz, 09-09, 0700 UTC

VVV VVV PROMRCh = 09 09 =
 1000 0840 0880 1000 1400
 1200 0870 0900 1010 1380
 1400 0900 0930 1040 1410
 1600 0890 0920 1040 1420
 1800 0880 0920 1050 1440
 2000 0880 0900 1010 1350
 2200 0710 0730 0810 1070
 0000 0740 0650 0750 0920
 0200 0590 0600 0660 0840
 0400 0550 0560 0610 0800
 0600 0530 0550 0620 0850
 0800 0750 0790 0920 1300
 = ABV

VVV VVV PROMRCh = 09 09 =
 1000 0840 0880 1000 1400
 1200 0870 0900 1010 1380
 1400 0900 0930 1040 1410
 1600 0890 0920 1040 1420
 1800 0880 0920 1050 1440
 2000 0880 0900 1010 1350
 2200 0710 0730 0810 1070
 0000 0740 0650 0750 0920
 0200 0590 0600 0660 0840
 0400 0550 0560 0610 0800
 0600 0530 0550 0620 0850
 0800 0750 0790 0920 1300
 = AR

4735 kHz, 06-09, 0700 UTC

VVV VVV PROMRCh = 06 09 =
 1000 0830 0870 0990 1370
 1200 0860 0890 1000 1360
 1400 0890 0920 1030 1390
 1600 0880 0910 1020 1390
 1800 0870 0900 1020 1410
 2000 0880 0910 1020 1360
 2200 0730 0750 0830 1100
 0000 0650 0660 0720 0930
 0200 0590 0610 0660 0850
 0400 0550 0560 0620 0800
 0600 0540 0560 0630 0850
 0800 0750 0790 0910 1280
 = ABV

VVV VVV PROMRCh = 06 09 =
 1000 0830 0870 0990 1370
 1200 0860 0890 1000 1360
 1400 0890 0920 1030 1390
 1600 0880 0910 1020 1390
 1800 0870 0900 1020 1410
 2000 0880 0910 1020 1360
 2200 0730 0750 0830 1100
 0000 0650 0660 0720 0930
 0200 0590 0610 0660 0850
 0400 0550 0560 0620 0800
 0600 0540 0560 0630 0850
 0800 0750 0790 0910 1280
 = AR

4735 kHz, 10-09, 0700 UTC

VVV VVV PROMRCh = 10 09 =
 1000 0840 0880 1000 1400
 1200 0870 0900 1020 1380
 1400 0900 0930 1040 1420
 1600 0890 0920 1040 1420
 1800 0890 0920 1050 1450
 2000 0870 0900 1000 1350
 2200 0710 0730 0810 1070
 0000 0630 0640 0700 0900
 0200 0580 0590 0650 0830
 0400 0540 0560 0610 0800
 0600 0530 0550 0620 0850
 0800 0750 0790 0920 1300
 = ABV

VVV VVV PROMRCh = 10 09 =
 1000 0840 0880 1000 1400
 1200 0870 0900 1020 1380
 1400 0900 0930 1040 1420
 1600 0890 0920 1040 1420
 1800 0890 0920 1050 1450
 2000 0870 0900 1000 1350
 2200 0710 0730 0810 1070
 0000 0630 0640 0700 0900
 0200 0580 0590 0650 0830
 0400 0540 0560 0610 0800
 0600 0530 0550 0620 0850
 0800 0750 0790 0920 1300
 = AR

4735 kHz, 07-09, 0700 UTC

VVV VVV PROMRCh = 07 09 =
 1000 0840 0870 1000 1380
 1200 0860 0890 1000 1370
 1400 0900 0920 1040 1410
 1600 0890 0920 1030 1400
 1800 0870 0900 1030 1410
 2000 0880 0910 1020 1360
 2200 0730 0750 0830 1100
 0000 0640 0660 0720 0930
 0200 0590 0610 0660 0850
 0400 0550 0560 0620 0800
 0600 0530 0550 0630 0860
 0800 0750 0790 0910 1290
 = ABV

VVV VVV PROMRCh = 07 09 =
 1000 0840 0870 1000 1380
 1200 0860 0890 1000 1370
 1400 0900 0920 1040 1410
 1600 0890 0920 1030 1400
 1800 0870 0900 1030 1410
 2000 0880 0910 1020 1360
 2200 0730 0750 0830 1100
 0000 0640 0660 0720 0930
 0200 0590 0610 0660 0850
 0400 0550 0560 0620 0800
 0600 0530 0550 0630 0860
 0800 0750 0790 0910 1290
 = AR

4735 kHz, 11-09, 0700 UTC

Not monitored

4735 kHz, 08-09, 0700 UTC

VVV VVV PROMRCh = 08 09 =
 1000 0840 0880 1000 1390
 1200 0870 0900 1010 1380
 1400 0900 0930 1040 1420
 1600 0890 0920 1040 1410
 1800 0880 0910 1040 1430
 2000 0880 0910 1010 1360
 2200 0730 0750 0830 1090
 0000 0650 0660 0720 0930
 0200 0590 0610 0660 0850
 0400 0550 0560 0620 0800
 0600 0530 0550 0630 0850
 0800 0760 0790 0920 1300
 = ABV

VVV VVV PROMRCh = 08 09 =
 1000 0840 0880 1000 1390
 1200 0870 0900 1010 1380
 1400 0900 0930 1040 1420
 1600 0890 0920 1040 1410
 1800 0880 0910 1040 1430
 2000 0880 0910 1010 1360
 2200 0730 0750 0830 1090
 0000 0650 0660 0720 0930
 0200 0590 0610 0660 0850
 0400 0550 0560 0620 0800
 0600 0530 0550 0630 0850
 0800 0760 0790 0920 1300
 = AR

4735 kHz, 12-09, 0700 UTC

VVV VVV PROMRCh = 12 09 =
 1000 0850 0880 1010 1410
 1200 0880 0910 1020 1410
 1400 0910 0940 1060 1450
 1600 0900 0930 1050 1440
 1800 0900 0940 1070 1480
 2000 0870 0890 1000 1340
 2200 0710 0730 0800 1060
 0000 0620 0640 0690 0900
 0200 0580 0590 0640 0830
 0400 0540 0560 0610 0800
 0600 0520 0540 0610 0840
 0800 0750 0790 0920 1310
 = ABV

VVV VVV PROMRCh = 12 09 =
 1000 0850 0880 1010 1410
 1200 0880 0910 1020 1410
 1400 0910 0940 1060 1450
 1600 0900 0930 1050 1440
 1800 0900 0940 1070 1480
 2000 0870 0890 1000 1340
 2200 0710 0730 0800 1060
 0000 0620 0640 0690 0900
 0200 0580 0590 0640 0830
 0400 0540 0560 0610 0800
 0600 0520 0540 0610 0840
 0800 0750 0790 0920 1310
 = AR

4735 kHz, 13-09, 0700 UTC

VVV VVV PROMRCh = 13 09 =
 1000 0850 0890 1020 1430
 1200 0880 0910 1030 1420
 1400 0910 0950 1060 1460
 1600 0900 0930 1050 1440
 1800 0910 0940 1080 1490
 2000 0860 0890 0990 1330
 2200 0700 0710 0790 1040
 0000 0600 0630 0690 0890
 0200 0570 0580 0640 0820
 0400 0540 0560 0610 0790
 0600 0520 0540 0610 0830
 0800 0750 0790 0920 1310
 = ABV
 VVV VVV PROMRCh = 13 09 =
 1000 0850 0890 1020 1430
 1200 0880 0910 1030 1420
 1400 0910 0950 1060 1460
 1600 0900 0930 1050 1440
 1800 0910 0940 1080 1490
 2000 0860 0890 0990 1330
 2200 0700 0710 0790 1040
 0000 0600 0630 0690 0890
 0200 0570 0580 0640 0820
 0400 0540 0560 0610 0790
 0600 0520 0540 0610 0830
 0800 0750 0790 0920 1310
 = AR

4735 kHz, 14-09, 0700 UTC

VVV VVV PROMRCh = 14 09 =
 1000 0850 0890 1020 1430
 1200 0880 0910 1040 1420
 1400 0920 0950 1070 1460
 1600 0900 0940 1060 1450
 1800 0910 0950 1080 1510
 2000 0850 0880 0980 1320
 2200 0690 0700 0780 1030
 0000 0610 0630 0680 0880
 0200 0570 0580 0630 0810
 0400 0540 0550 0600 0790
 0600 0510 0530 0600 0820
 0800 0750 0790 0920 1310
 = ABV
 VVV VVV PROMRCh = 14 09 =
 1000 0850 0890 1020 1430
 1200 0880 0910 1040 1420
 1400 0920 0950 1070 1460
 1600 0900 0940 1060 1450
 1800 0910 0950 1080 1510
 2000 0850 0880 0980 1320
 2200 0690 0700 0780 1030
 0000 0610 0630 0680 0880
 0200 0570 0580 0630 0810
 0400 0540 0550 0600 0790
 0600 0510 0530 0600 0820
 0800 0750 0790 0920 1310
 = AR

4735 kHz, 15-09, 0700 UTC

VVV VVV PROMRCh = 15 09 =
 1000 0850 0890 1020 1430
 1200 0880 0920 1040 1430
 1400 0920 0960 1080 1470
 1600 0900 0940 1060 1460
 1800 0910 0950 1090 1510
 2000 0840 0870 0980 1310
 2200 0670 0690 0770 1010
 0000 0600 0620 0680 0870
 0200 0560 0570 0620 0800
 0400 0530 0540 0600 0770
 0600 0510 0520 0600 0820
 0800 0740 0780 0910 1300
 = ABV
 VVV VVV PROMRCh = 15 09 =
 1000 0850 0890 1020 1430
 1200 0880 0920 1040 1430
 1400 0920 0960 1080 1470
 1600 0900 0940 1060 1460
 1800 0910 0950 1090 1510
 2000 0840 0870 0980 1310
 2200 0670 0690 0770 1010
 0000 0600 0620 0680 0870
 0200 0560 0570 0620 0800
 0400 0530 0540 0600 0770
 0600 0510 0520 0600 0820
 0800 0740 0780 0910 1300
 = AR

4735 kHz, 16-09, 0700 UTC

VVV VVV PROMRCh = 16 09 =
 1000 0850 0890 1040
 1200 0880 0920 1040 **off, back**
at 0705z
 VVV VVV PROMRCh = 16 09 =
 1000 0850 0890 1030 1440
 1200 0880 0920 1040 1430
 1400 0920 0960 1080 1480
 1600 0900 0940 1060 1460
 1800 0910 0950 1090 1520
 2000 0840 0870 0970 1300
 2200 0670 0680 0760 1000
 0000 0600 0610 0670 0860
 0200 0550 0560 0610 0790
 0400 0530 0540 0590 0770
 0600 0500 0520 0590 0810
 0800 0740 0770 0910 1300
 = ABV
 VVV VVV PROMRCh = 16 09 =
 1000 0850 0890 1030 1440
 1200 0880 0920 1040 1430
 1400 0920 0960 1080 1480
 1600 0900 0940 1060 1460
 1800 0910 0950 1090 1520
 2000 0840 0870 0970 1300
 2200 0670 0680 0760 1000
 0000 0600 0610 0670 0860
 0200 0550 0560 0610 0790
 0400 0530 0540 0590 0770
 0600 0500 0520 0590 0810
 0800 0740 0770 0910 1300
 = AR

4735 kHz, 17-09, 0700 UTC

VVV VVV PROMRCh = 17 09 =
 1000 0850 0890 1020 1440
 1200 0880 0920 1040 1440
 1400 0920 0960 1080 1480
 1600 0900 0930 1060 1460
 1800 0910 0950 1090 1520
 2000 0830 0850 0960 1290
 2200 0650 0670 0740 0980
 0000 0590 0600 0660 0850
 0200 0540 0550 0610 0790
 0400 0520 0530 0580 0760
 0600 0500 0510 0580 0800
 0800 0730 0770 0900 1290
 = ABV
 VVV VVV PROMRCh = 17 09 =
 1000 0850 0890 1020 1440
 1200 0880 0920 1040 1440
 1400 0920 0960 1080 1480
 1600 0900 0930 1060 1460
 1800 0910 0950 1090 1520
 2000 0830 0850 0960 1290
 2200 0650 0670 0740 0980
 0000 0590 0600 0660 0850
 0200 0540 0550 0610 0790
 0400 0520 0530 0580 0760
 0600 0500 0510 0580 0800
 0800 0730 0770 0900 1290
 = AR

4735 kHz, 18-09, 0700 UTC
Not monitored**4735 kHz, 19-09, 0700 UTC**

VVV VVV PROMRCh = 19 09 =
 1000 0840 0870 1020 1440
 1200 0870 0900 1030 1440
 1400 0910 0940 1070 1480
 1600 0880 0920 1040 1450
 1800 0910 0950 1090 1530
 2000 0800 0830 0930 1260
 2200 0620 0640 0710 0950
 0000 0560 0580 0630 0820
 0200 0520 0530 0580 0760
 0400 0500 0510 0560 0730
 0600 0480 0500 0570 0780
 0800 0710 0750 0890 1280
 = ABV
 VVV VVV PROMRCh = 19 09 =
 1000 0840 0870 1020 1440
 1200 0870 0900 1030 1440
 1400 0910 0940 1070 1480
 1600 0880 0920 1040 1450
 1800 0910 0950 1090 1530
 2000 0800 0830 0930 1260
 2200 0620 0640 0710 0950
 0000 0560 0580 0630 0820
 0200 0520 0530 0580 0760
 0400 0500 0510 0560 0730
 0600 0480 0500 0570 0780
 0800 0710 0750 0890 1280
 = AR

4735 kHz, 20-09, 0701 UTC

VVV VVV PROMRCh = 20 09 =
 1000 0830 0880 1020 1440
 1200 0870 0910 1040 1440
 1400 0910 0940 1070 1480
 1600 0880 0920 1050 1460
 1800 0910 0950 1090 1530
 2000 0790 0820 0920 1250
 2200 0610 0630 0700 0940
 0000 0550 0570 0620 0810
 0200 0510 0520 0570 0740
 0400 0490 0500 0550 0720
 0600 0470 0490 0560 0770
 0800 0710 0750 0890 1290
 = ABV
 VVV VVV PROMRCh = 20 09 =
 1000 0830 0880 1020 1440
 1200 0870 0910 1040 1440
 1400 0910 0940 1070 1480
 1600 0880 0920 1050 1460
 1800 0910 0950 1090 1530
 2000 0790 0820 0920 1250
 2200 0610 0630 0700 0940
 0000 0550 0570 0620 0810
 0200 0510 0520 0570 0740
 0400 0490 0500 0550 0720
 0600 0470 0490 0560 0770
 0800 0710 0750 0890 1290
 = AR

4735 kHz, 21-09, 0701 UTC

VVV VVV PROMRCh = 21 09 =
 1000 0840 0870 1020 1450
 1200 0870 0910 1040 1460
 1400 0900 0940 1070 1490
 1600 0880 0920 1050 1460
 1800 0910 0950 1090 1540
 2000 0780 0810 0910 1230
 2200 0600 0620 0690 0920
 0000 0550 0560 0610 0800
 0200 0500 0510 0560 0730
 0400 0480 0490 0540 0720
 0600 0480 0490 0550 0770
 0800 0710 0750 0890 1290
 = ABV

VVV VVV PROMRCh = 21 09 =
 1000 0840 0870 1020 1450
 1200 0870 0910 1040 1460
 1400 0900 0940 1070 1490
 1600 0880 0920 1050 1460
 1800 0910 0950 1090 1540
 2000 0780 0810 0910 1230
 2200 0600 0620 0690 0920
 0000 0550 0560 0610 0800
 0200 0500 0510 0560 0730
 0400 0480 0490 0540 0720
 0600 0480 0490 0550 0770
 0800 0710 0750 0890 1290
 = AR

4735 kHz, 22-09, 0700 UTC

Not monitored

4735 kHz, 23-09, 0700 UTC

Not monitored

4735 kHz, 24-09, 0700 UTC

VVV VVV PROMRCh = 24 09 =
 1000 0850 0890 1030 1460
 1200 0880 0920 1050 1470
 1400 0920 0960 1090 1500
 1600 0890 0930 1060 1470
 1800 0910 0950 1100 1540
 2000 0780 0800 1S EEE EE
 2200 0780 0800 0910 1240
 2200 0600 0610 0690 0920
 0000 0540 0560 0610 0790
 0200 0490 0500 0560 0730
 0400 0470 0490 0540 0710
 0600 0460 0480 0550 0760
 0800 0720 0760 0900 1300
 = ABV =

VVV VVV PROMRCh = 24 09 =
 17 EEEEE =
 1000 0850 0890 1030 1460
 1200 0880 0920 1050 1470
 1400 0920 0960 1090 1500
 1600 0890 0930 1060 1470
 1800 0910 0950 1100 1540
 2000 0780 0800 0910 1240
 2200 0600 0610 0690 0920
 0000 0540 0560 0610 0790
 0200 0490 0500 0560 0730
 0400 0470 0490 0540 0710
 0600 0460 0480 0550 0760
 0800 0720 0760 0900 1300
 = AR

4735 kHz, 25-09, 0700 UTC

VVV VVV PROMRCh = 25 09 =
 1000 0850 0890 1030 1460
 1200 0890 0920 1050 1470
 1400 0930 0960 1090 1510
 1600 0900 0930 1060 1480
 1800 0920 0960 1100 1550
 2000 0780 0800 0910 1240
 2200 0590 0610 0680 0920
 0000 0540 0560 0610 0790
 0200 0500 0510 0560 0740
 0400 0480 0490 0540 0710
 0600 0460 0480 0550 0760
 0800 0720 0760 0890 1300
 = ABV

VVV VVV PROMRCh = 25 09 =
 1000 0850 0890 1030 1460
 1200 0890 0920 1050 1470
 1400 0930 0960 1090 1510
 1600 0900 0930 1060 1480
 1800 0920 0960 1100 1550
 2000 0780 0800 0910 1240
 2200 0590 0610 0680 0920
 0000 0540 0560 0610 0790
 0200 0500 0510 0560 0740
 0400 0480 0490 0540 0710
 0600 0460 0480 0550 0760
 0800 0720 0760 0890 1300
 = AR

4735 kHz, 26-09, 0700 UTC

VVV VVV PROMRCh = 26 09 =
 1000 0860 0900 1040 1470
 1200 0900 0940 1070 1490
 1400 0940 0970 1100 1510
 1600 0900 0940 1070 1480
 1800 0920 0970 1110 1550
 2000 0770 0800 0910 1240
 2200 0590 0610 0680 0920
 0000 0540 0550 0610 0790
 0200 0500 0510 0560 0730
 0400 0480 0490 0540 0710
 0600 0460 0480 0550 0760
 0800 0720 0760 0900 1310
 = ABV

VVV VVV PROMRCh = 26 09 =
 1000 0860 0900 1040 1470
 1200 0900 0940 1070 1490
 1400 0940 0970 1100 1510
 1600 0900 0940 1070 1480
 1800 0920 0970 1110 1550
 2000 0770 0800 0910 1240
 2200 0590 0610 0680 0920
 0000 0540 0550 0610 0790
 0200 0500 0510 0560 0730
 0400 0480 0490 0540 0710
 0600 0460 0480 0550 0760
 0800 0720 0760 0900 1310
 = AR

4735 kHz, 27-09, 0700 UTC

VVV VVV PROMRCh = 27 09 =
 1000 0870 0910 1050 1480
 1200 0910 0950 1080 1500
 1400 0950 0980 1110 1530
 1600 0910 0950 1080 1500
 1800 0930 0970 1110 1560
 2000 0770 0800 0910 1230
 2200 0590 0610 0680 0910
 0000 0540 0550 0610 0790
 0200 0500 0510 0560 0740
 0400 0480 0490 0540 0710
 0600 0460 0480 0550 0760
 0800 0730 0770 09WAO 1Y EEEEE =
 0800 0730 0700 0910 1320
 = ABV =

VVV VVV PROMRCh = 27 09 =
 1000 0870 0910 1050 1480
 1200 0910 0950 1080 1500
 1400 0950 0980 1110 1530
 1600 0910 0950 1080 1500
 1800 0930 0970 1110 1560
 2000 0770 0800 0910 1230
 2200 0590 0610 0680 0910
 0000 0540 0550 0610 0790
 0200 0500 0510 0560 0740
 0400 0480 0490 0540 0710
 0600 0460 0480 0550 0760
 0800 0730 0700 0910 1320
 = AR

4735 kHz, 28-09, 0700 UTC VVV VVV PROMRCh = 28 09 = 1000 0880 0920 1060 1490 1200 0930 0960 1090 1510 1400 0960 1000 1130 1540 1600 0930 0960 1090 1510 1800 0940 0980 1130 1580 2000 0770 0800 0910 1230 2200 0590 0610 0680 0920 0000 0540 0550 0610 0790 0200 0500 0510 0570 0740 0400 0480 0500 0550 0720 0600 0460 0480 0550 0760 0800 0740 0780 0920 1320 = ABV VVV VVV PROMRCh = 28 09 = 1000 0880 0920 1060 1490 1200 0930 0960 1090 1510 1400 0960 1000 1130 1540 1600 0930 0960 1090 1510 1800 0940 0980 1130 1580 2000 0770 0800 0910 1230 2200 0590 0610 0680 0920 0000 0540 0550 0610 0790 0200 0500 0510 0570 0740 0400 0480 0500 0550 0720 0600 0460 0480 0550 0760 0800 0740 0780 0920 1320 = AR	4735 kHz, 29-09, 0700 UTC VVV VVV PROMRCh = 29 09 = 1000 0890 0940 1070 1510 1200 0940 0980 1100 1520 1400 0970 1010 1130 1550 1600 0940 0980 1110 1520 1800 0960 1000 1140 1590 2000 0780 0810 0910 1240 2200 0590 0610 0690 0920 0000 0540 0560 0610 0790 0200 0510 0520 0570 0740 0400 0490 0500 0550 0730 0600 0470 0490 0550 0770 0800 0750 0790 0930 1330 = ABV VVV VVV PROMRCh = 29 09 = 1000 0890 0940 1070 1510 1200 0940 0980 1100 1520 1400 0970 1010 1130 1550 1600 0940 0980 1110 1520 1800 0960 1000 1140 1590 2000 0780 0810 0910 1240 2200 0590 0610 0690 0920 0000 0540 0560 0610 0790 0200 0510 0520 0570 0740 0400 0490 0500 0550 0730 0600 0470 0490 0550 0770 0800 0750 0790 0930 1330 = AR	4735 kHz, 30-09, 0700 UTC VVV VVV PROMRCh = 30 09 = 1000 0910 0950 1090 1520 1200 0950 0990 1120 1540 1400 0990 1020 1150 1570 1600 0960 0990 1120 1540 1800 0970 1010 1150 1600 2000 0790 0810 0920 1250 2200 0600 0620 0690 0930 0000 0550 0560 0620 0800 0200 0510 0520 0580 0750 0400 0490 0510 0560 0730 0600 0470 0490 0560 0770 0800 0750 0800 0940 1340 = ABV VVV VVV PROMRCh = 30 09 = 1000 0910 0950 1090 1520 1200 0950 0990 1120 1540 1400 0990 1020 1150 1570 1600 0960 0990 1120 1540 1800 0970 1010 1150 1600 2000 0790 0810 0920 1250 2200 0600 0620 0690 0930 0000 0550 0560 0620 0800 0200 0510 0520 0580 0750 0400 0490 0510 0560 0730 0600 0470 0490 0560 0770 0800 0750 0800 0940 1340 = AR
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DIGITAL MODES

F01

F01 – FSK 200/500 Mon-Fri schedule

9128/7546/5113 kHz, 01-09, 1015/1025/1035 UTC Too weak to decode

9128/7546/5113 kHz, 02-09, 1015/1025/1035 UTC Too weak to decode

9128/7546/5113 kHz, 03-09, 1015/1025/1035 UTC Too weak to decode

9128/7546/5113 kHz, 04-09, 1015/1025/1035 UTC Messages 26 and 27. Very bad signal. Partly decoded

____ 49295 92647 29260 ____
____ 27589 51866 31143 14849 84360
83746 ____ 94760 18685 71141
65250 42705 25226 95799 72345 67532 01097 58736 29462 87837
89017 94275 06647 70329 79922 19071 72109 55740 50895 06060
64859 59412 61818 09188 17091 08689 36105 ____
92698 93619 61874 ____ 56857 68557 19630 23916
45264 53085 ____ 39122 50795 38449 46427 76193
06061 ____ 96701 68469 26083 00000

25135 54368 46474 00374 80224 73629 48465 71871 10949 21069
92921 21357 48988 37285 68837 98857 44753 50674 74915 56458
26511 16809 35187 20144 28360 02050 35818 67599 47982 16081
06552 29160 20131 23061 95215 54085 16762 86077 08725 09358
09780 24587 19040 03189 57308 ____ 99433 85803
45934 21993 74362 96807 ____
18371 13089 41152 71035 79364 95852 79010 55816 57172 36737

54280 44514 _____ 58898 62513 92289 10714 67872
98911 21585 03513 36835 51274 34715 93604 _____
03490 69568 61812 34836 96804 27095 00000 +++++ +++++

9128/7546/5113 kHz, 05-09, 1015/1025/1035 UTC 00000 +++++ +++++

9128/7546/5113 kHz, 08-09, 1015/1025/1035 UTC Too weak to decode

9128/7546/5113 kHz, 09-09, 1015/1025/1035 UTC Not monitored

9128/7546/5113 kHz, 10-09, 1015/1025/1035 UTC Not monitored

9128/7546/5113 kHz, 11-09, 1015/1025/1035 UTC

54585 41837 58047 95116 66942 15301 12558 47674 49960 32619
15671 72700 56671 45457 33208 11777 32358 42116 91117 91895
73188 84462 78893 36270 49011 65666 56981 95161 26252 68418
66644 88919 51844 28328 65695 80408 84125 32186 38547 19021
81656 05774 54024 23458 85876 70913 69357 95474 58549 76442
03810 81754 59934 32804 30373 26132 78607 04935 58959 79323
48895 32061 00000

92552 95834 70653 30378 50035 42965 53236 19642 86618 19699
18378 14728 18975 16395 27905 49925 19398 73799 15691 53253
58476 90148 98024 07856 48644 32658 87582 33958 37041 95599
64793 21108 21134 72144 99691 15352 85528 32168 50900 31060
83404 23190 39107 62082 11027 36658 47206 26192 48749 06744
83041 22532 66968 33846 65670 06730 20454 49990 21120 13375
79494 68311 98532 80550 71296 83802 42678 56100 30077 17527
83739 90324 79283 21462 30323 44787 94382 86192 76630 71919
19647 18610 59730 45125 37390 81822 27860 44045 13080 14465
05705 24694 64759 71581 67583 29150 30235 54283 54483 14478
30446 20367 95882 33103 00000 +++++ +++++

9128/7546/5113 kHz, 12-09, 1015/1025/1035 UTC 00000 +++++ +++++

9128/7546/5113 kHz, 15-09, 1015/1025/1035 UTC

39127 87212 93907 47607 86683 07242 22376 17005 96194 03662
29935 87865 44627 60493 07663 45430 82464 26623 57296 59892
43181 56890 65403 00975 34830 63809 30762 18606 62211 22132
55915 44407 53034 93422 38805 93662 86522 62851 25460 72464
47906 05365 09646 19729 57221 23458 90423 38750 45863 23700
23564 98005 79339 24224 27742 05881 49643 10363 31451 89004
85696 80614 71586 28890 55300 50124 79614 36564 57019 03880
16289 69868 25451 16797 40831 23130 98307 82887 25525 43872
18759 20700 51656 56276 71452 47210 47740 96060 75682 37366
55972 86476 84103 11459 37834 10104 60466 17510 54800 56133
34784 00874 85083 47827 59381 78228 62347 79844 14261 58154
47330 20109 35220 75471 68318 55929 63161 31550 91402 89029
38034 57747 06464 09205 85837 44193 39803 01271 72131 01085
29390 65005 20487 44688 23630 52764 19316 25244 89612 54459
65517 38942 41764 84588 18380 91178 26858 51007 62167 03257
26295 10118 00846 79745 61621 38182 33367 78659 14199 73422
82959 51666 94972 08628 78861 46493 25274 38915 13933 88737
14605 94374 26577 85249 46315 12249 80432 16293 07146 28362
40235 08656 21544 92467 67327 06913 76708 37214 83222 85011
49292 55404 74676 65385 69699 65257 38706 37772 84926 68328
90973 94919 05868 29803 86002 27387 50033 35842 22637 44603
15615 07661 33194 14387 47842 77034 79753 38114 83548 52919
05998 03715 84912 33875 18072 83685 98285 45968 92877 70317
99058 10864 37243 65310 08506 73768 46417 65976 93530 45931
35311 15207 85262 41379 40934 07399 77442 12583 19458 67527
90527 14730 86348 45548 12456 53302 72996 93320 52007 94643
98297 16236 65706 44196 78607 16743 44188 22110 24508 71952

68983 90893 97837 12516 75644 14810 27407 94954 84160 55695
06840 84641 82594 34889 22992 91604 74877 15971 88362 26360
28705 87979 75951 67949 84464 53810 79996 61363 11143 53476
51025 86563 20128 76917 78662 66255 72882 46055 20628 04632
43375 70761 01359 74258 21260 08453 28711 93285 66696 81976
02148 60183 52779 35487 10884 38187 56495 33006 45401 06632
84162 29330 70780 21369 42267 68005 35293 51460 89658 86030
12675 84317 32027 29988 01539 16494 44598 13291 30347 72308
33995 69224 41390 17484 75194 79487 52205 59995 84519 82892
17877 55316 14603 93945 42649 58242 82261 85969 14298 88481
65220 18463 59687 02213 28620 13391 44963 86775 67245 10082
68806 20708 34417 53437 22190 66265 73479 95113 13086 86729
72822 12393 79538 05503 30381 74411 39567 49367 38537 10439
51309 42980 65374 34403 00000 +++++ +++++ +++++

9128/7546/5113 kHz, 16-09, 1015/1025/1035 UTC

31866 32051 33369 43975 52478 74237 13655 60845 57285 16850
01145 78132 81486 19553 87484 95741 07983 88714 38872 91422
34286 30727 56383 91124 68051 48383 51617 16013 05898 53765
04877 42081 75228 96066 98041 33297 43718 27797 39347 34229
26168 57808 22238 33072 43414 64563 85493 31029 12966 68107
66813 78970 76077 84161 67043 67329 90930 08783 67232 80138
46616 07036 65715 49180 77608 04092 27395 69165 83408 02222
62426 59882 83057 72095 76476 86263 59197 91836 59756 72291
71369 32277 07012 35083 00000

25401 32132 69766 25809 10258 02997 90884 34810 19460 05839
68450 35402 66221 58558 26113 91615 74576 75732 83815 13389
20364 42298 69917 35957 21921 35755 76001 12619 97669 82854
84038 69320 32784 61690 20608 94491 22130 85139 17848 62578
81659 26593 85843 14699 45451 73898 26117 44867 90581 22472
40926 65220 57016 43508 18044 48693 54710 88215 95724 72561
75097 14037 37523 11309 49168 43772 71666 52247 19314 93548
74671 32325 17127 30581 03879 19566 64347 46653 08604 87578
39141 58253 74589 56559 74897 69316 81449 99250 83734 57497
77778 35265 21897 69913 03634 36095 00000 +++++ +++++

9128/7546/5113 kHz, 17-09, 1015/1025/1035 UTC

76253 89065 13401 66839 69830 73659 11599 92481 63778 34489
83218 47982 28594 96575 91026 10533 41998 82391 91706 60109
61664 44235 41445 26148 52329 68564 61375 33537 09498 63248
17581 21356 46910 63667 95329 32817 39971 18590 72237 99823
42317 41784 20046 70604 17722 40279 89694 53846 54519 55228
59393 77771 54731 76310 50356 87591 15095 15597 39909 29778
42163 51834 26647 96589 68687 81073 27322 29286 63445 34584
10166 03476 51721 49987 94323 45028 88611 06556 70080 49985
52358 60610 19592 06926 49881 41943 42775 45192 51712 97222
18070 57453 98501 91308 52751 70003 46308 02407 02481 59260
42829 72019 64776 37898 51792 95608 76107 59033 67665 64926
67279 11926 87894 97940 56813 07616 34846 17292 87001 77942
44640 63234 32319 36375 65075 51970 34896 74104 29809 15349
46720 89819 01011 82837 83271 76613 97645 91723 18266 14465
51600 36472 74197 41706 58822 93181 88379 03953 17670 80080
59146 03895 71650 39987 01933 00417 98754 55684 69894 30464
14540 34146 18770 52101 81189 20543 20671 32208 39708 27968
56480 27227 07445 93835 41557 30427 08147 98861 64422 84106
26709 09593 43132 80167 05826 30397 28997 97516 26725 75874
12373 49713 41161 99606 10170 41310 46881 40199 39802 56328
23720 70540 09245 27288 72541 61224 77889 58253 24185 94069
67891 00312 10633 86675 30695 02939 15563 13946 98412 89672
46485 37529 74770 31547 95648 79100 45272 16711 81909 98435
11309 39686 90733 62201 77865 58680 54542 14407 49540 94409
40567 84457 14545 68864 38425 93739 21383 07451 64569 46676

77892 52948 25843 17198 27339 64722 09288 66561 81243 01631
90412 53444 13644 12054 77113 22276 46460 79495 31414 80715
80667 97184 36238 02240 52954 70123 99377 14756 22558 68008
11867 61191 17961 77467 02924 42995 98141 27061 58678 82484
08062 83460 96842 64977 33076 42267 14536 46649 81961 61889
51436 39044 53241 13931 35451 06193 64504 48511 03100 35260
49392 97976 11788 66659 51955 67416 86160 94593 73056 85442
65731 73927 48518 13652 45961 94350 63684 38223 29993 07770
34111 92081 33200 19849 07044 81060 07775 81656 63391 12511
79509 42348 24872 49786 13979 48811 96024 41046 54301 03234
95771 95813 97670 14512 58213 07720 02846 04444 07361 46883
45784 54650 35467 70351 65608 05149 39671 24050 68089 40533
96624 34668 78839 24680 79795 14928 63399 69938 49133 30668
56407 51714 67787 03182 67033 04420 25565 45243 52882 59696
73809 54270 79525 12863 01397 11044 07879 28525 06530 57438
76588 21285 44026 51592 71633 72479 52773 23956 00320 68896
93054 82656 11849 37413 00000 +++++ +++++

9128/7546/5113 kHz, 19-09, 1015/1025/1035 UTC

56497 38595 88204 54615 17395 04361 26819 13706 28380 64195
86767 98479 83160 21480 3:151 60411 18977 36710 17905 51486
07245 99461 23386 60857 80625 82485 36595 04736 26206 26373
61238 80438 99485 28218 55805 20529 38842 32723 82856 07997
85184 49191 87703 38414 36461 42822 48668 39994 91717 73773
66118 87500 64403 82404 82456 70945 69591 44156 50252 05006
14819 42493 90706 90099 49228 33349 09640 61065 50691 99516
63181 84367 55613 18418 90359 89785 61103 38077 00000

69940 29647 70950 72411 84817 49343 94341 05612 90549 69135
11346 92867 98059 63133 65049 87277 36196 67360 69429 03045
72534 77475 66726 46061 85045 00894 56775 04358 33090 05483
09263 53097 01159 32033 94822 53818 13811 62687 95915 52594
45234 62508 83438 06810 71880 36383 69986 95238 41598 68446
75716 91107 57705 36208 67749 02839 01449 16580 59035 12155
41273 25981 77636 64229 02348 61711 42359 89585 94779 36787
05663 62413 23963 25419 49798 24999 31488 61316 47106 32963
40059 39081 00000 +++++ +++++

9128/7546/5113 kHz, 19-09, 1015/1025/1035 UTC

Not monitored

9128/7546/5113 kHz, 22-09, 1015/1025/1035 UTC

04258 96722 03291 91456 04433 32717 29461 06323 63972 82142
63643 54600 02657 14288 79213 12821 26359 49606 08882 71749
00012 43302 56375 63574 27313 02608 76587 31388 41856 61195
41664 26881 39377 59146 33129 47204 05802 01937 33524 46924
20774 96848 99254 86015 41371 02754 23379 98925 95672 54333
95692 01951 40886 96229 59885 55954 65712 88826 37386 76879
41625 45828 14559 48475 52780 90034 90540 67090 59213 88105
06021 48159 73031 50256 35495 56224 52278 18341 21414 44434
42163 90749 92415 14449 18343 57554 32825 32692 11938 44355
95611 63892 20978 88245 75992 07843 37959 94354 87868 50322
48199 46386 10272 64117 78689 69596 96035 21074 02114 69663
59842 01127 25731 95856 87863 09232 19820 01973 36616 93615
34303 71088 10288 24057 25558 54158 41717 22745 71220 91138
07764 47669 14105 21005 54906 75451 28509 46168 24857 37975
65425 54484 96328 00944 89089 20715 86074 37850 90569 93240
76204 35288 58095 64462 59953 90562 08819 48338 23096 87504
11683 13478 03196 61461 56089 45251 93867 89374 46061 35329
86254 65899 24576 22107 64895 14935 87763 30449 00172 03415
33655 84177 04530 25575 55169 89759 44659 98163 32027 14621
26808 73009 01277 08530 97440 45594 31121 41475 26410 39664
87730 56500 64834 65381 69737 60900 94874 36940 40090 04248

13589 60603 09954 16667 18057 29077 54357 05802 83968 83175
64263 35906 54842 26707 64747 37511 84091 05523 53983 21092
97102 86659 42719 39316 65516 98517 98896 98291 10914 18016
27219 35358 80073 15653 38154 21654 59010 94415 86262 03103
17956 83476 82419 34152 04501 72609 09650 75704 27052 98267
97271 84575 95825 17262 33019 92873 13533 28969 17851 00773
32970 32013 93112 31094 23688 26364 94756 19144 14926 96773
14300 36243 07012 38508 71199 80382 68398 11289 26353 12452
60537 32410 91393 21465 57771 44937 13470 67230 54427 21957
40211 73898 76315 92785 94545 12830 38802 02098 14078 18209
18653 37897 34697 23860 31834 89273 23121 44683 34462 19884
88038 51159 89077 68092 24569 10363 63445 09711 71699 91908
54057 44266 87400 62286 51533 90751 71106 16001 90102 03782
88241 16980 48353 46093 76496 48658 93438 78338 38513 96201
85932 52091 50699 09295 87513 17024 42831 18931 38665 78172
64243 88656 49613 64519 92890 45193 64519 92890 45193 90108
12587 43902 67188 02652 27501 76233 01549 57401 13149 49831
25518 03149 01362 38173 53141 18390 00999 42471 50025 03897
54562 43474 36097 15228 94512 51799 81025 58623 16482 42746
22020 98714 11565 86509 58669 51483 24883 09751 04521 60917
32605 49443 00092 82796 54613 40415 00000 +++++ +++++ +++++

9128/7546/5113 kHz, 23-09, 1015/1025/1035 UTC

04486 16723 37532 33554 67925 07881 57159 21114 03900 34007
95935 39980 44554 75829 32464 33055 28787 24788 83691 58773
92307 52075 43838 54528 28492 31677 93356 50184 99730 15855
70086 92635 03951 86503 19815 67335 26001 30835 68411 27727
28590 14804 82734 68533 62457 52731 12500 03828 00477 96560
30282 35823 25369 93171 11863 25326 25717 83202 24083 99787
79965 39815 12417 59892 33103 70838 05430 70609 95702 32722
78323 47666 20013 41073 00000

71811 25561 95860 36415 15821 77887 47716 90831 83817 98521
59497 19647 11723 28557 19169 50161 48405 49237 92403 82973
33075 12641 94741 46547 36828 93162 67758 71783 04288 39484
57673 78811 56286 31723 19832 93165 39519 73440 97511 33551
34102 73208 48476 38373 54986 95399 17724 23225 08150 84923
79866 86527 87517 95557 99567 05488 23538 76589 83495 89586
19359 97442 22208 83774 35537 14985 45417 38552 09224 13189
39080 89141 18758 69852 97731 10928 29605 30055 10515 43349
82586 91039 04337 99437 10324 28205 92597 03196 92855 16904
02913 21981 88337 29727 82289 86108 99784 13958 03170 12844
63790 78905 18797 76975 72149 42105 00000 +++++ +++++

9128/7546/5113 kHz, 26-09, 1015/1025/1035 UTC

55830 71738 03567 90961 28303 37376 22245 07403 78800 96461
76333 99569 90342 18166 57070 25580 38165 76890 02561 81400
04318 68990 00113 06280 73602 36224 22267 56651 71800 00638
19955 65662 32122 40561 21224 30559 00813 62401 08966 95064
17866 47928 76082 18988 33759 81732 81541 52209 48170 88548
55733 55263 81604 35132 28598 33672 15863 84922 22858 55705
64303 50308 28315 28585 57819 51827 28146 01733 57481 39567
13123 53602 29773 55885 19708 64914 45364 64464 92952 69110
87361 35295 30147 64334 79956 31704 34719 76685 73438 79123
78825 66921 46473 20286 98071 97811 11623 86528 66800 04327
35015 39905 27382 33835 06110 65778 71942 48519 18506 20598
99983 07177 47717 64529 00301 68613 36864 33644 30671 83795
26199 31345 93722 68963 87437 43713 32438 76896 48793 08473
93719 08494 21683 92260 33467 31893 65028 55868 61584 01284
48092 12181 50376 92618 97781 06464 54757 98409 41757 37573
17712 48787 80579 52696 59448 51025 57888 61543 73684 64701
01153 64279 79495 54699 57315 83291 02167 89218 51244 37226
81490 75003 30596 09075 19093 54957 82659 74123 96141 54345

34103 42448 86159 10761 69574 95655 75891 00055 30079 22544
03147 55406 77089 83377 08784 53723 33308 57467 93333 92567
36033 53735 88583 41784 64052 88952 67527 87025 24017 63346
41139 07355 07225 88253 15399 54127 52742 45515 07005 23317
77825 83294 41225 38499 61551 78011 80303 86655 92617 17073
55880 74007 17235 82094 03847 94046 48057 37300 25081 24969
20086 52781 20501 98686 04476 17307 73872 08611 16203 20376
80804 48387 76505 08188 47377 98782 16049 43238 06835 04902
29761 22201 27783 10919 19251 31811 12327 84421 83772 47415
07588 68246 45657 03891 79038 39901 21158 93611 19089 49248
72640 71153 89367 23153 03060 69428 20127 16373 78657 56925
15222 30178 90821 90760 36080 25995 93045 45208 63132 26254
73918 20410 58102 19630 52086 60951 75625 12871 04133 38981
97617 96388 61300 81577 88833 15816 35993 47032 97060 66695
64012 79754 46369 54512 73443 98471 96873 87240 16147 97418
69435 92600 22780 65206 58741 77201 67290 51048 83199 69779
51827 33042 45090 15694 47990 68187 99406 14889 55370 28830
54825 20490 63311 55220 55245 40245 26832 78867 15326 07974
92643 96390 08470 17231 36205 98540 30685 34358 95750 84082
88761 33126 14228 13233 86203 18138 25081 80336 05351 29197
42820 10464 09132 43810 44318 09627 10882 20032 51757 23292
85663 46825 53186 82883 21531 94126 21602 44962 34173 79807
18509 52767 93371 95719 92885 74806 34713 43407 00000 +++++
+++++

9128/7546/5113 kHz, 25-09, 1015/1025/1035 UTC

Not monitored

9128/7546/5113 kHz, 26-09, 1015/1025/1035 UTC

00000 +++++ +++++

9128/7546/5113 kHz, 29-09, 1015/1025/1035 UTC. Poor signal. Partly unreadable

86234 14535 38676 83459 07080 45284 69869 50764 20900 03920
25843 20301 _____ 68798 03155
41496 _____ 54865 73185 33043 79011 94236 82155
30174 84571 14042 03622 61711 23352 13710 32256 63688 63875
52627 23859 84415 69250 29115 58974 46312 25088 13796 78479
67609 66750 79541 02084 98592 79339 95195 65682 05209 56888
75247 38473 32904 28148 02658 05836 95792 45526 67005 28826
86844 30411 85162 16298 47769 53530 96676 70552 87889 25647
51043 89245 53505 63081 29059 56964 49286 13488 65453 95023
91424 40318 64964 42709 97200 89421 20734 36264 06641 86200
35557 15451 29121 36783 38074 16576 80099 31626 77942 73792
03504 74999 25326 56938 18617 88795 91996 11463 60669 64078
82863 84835 56634 58834 78461 07743 37495 56551 65589 16004
78882 95656 58270 24148 38112 58468 76241 86593 78418 26082
73142 07355 73951 14638 31604 84226 11907 26205 67414 98379
84244 26118 09963 85300 86141 54009 51127 48015 25874 91961
79820 98542 75814 38237 44361 38501 19226 60005 09860 14816
72545 23509 02824 11462 87844 25116 60147 63174 65151 71683
24685 02079 29327 83677 54600 73162 51172 19481 38662 79528
17473 44336 34696 43378 79642 92348 73357 93652 35683 94994
94432 16270 25116 74577 07842 27897 41606 26050 96538 59197
92937 35669 03493 58485 63041 09888 69937 51731 55769 12954
17080 19849 25082 36625 88453 79209 21361 50458 95100 76310
08515 06101 30778 32545 31576 94021 49365 00010 39473 76120
21675 14277 92664 42661 13835 55086 10328 66945 54448 50876
36783 56193 82705 88105 31843 22037 94645 11298 14775 19098
29745 24743 16568 25049 65026 31793 20186 60637 08878 72708
93491 73068 11765 46956 44544 31221 36023 30932 53937 06107
51920 27030 63881 35025 52178 04989 28710 92846 02139 21468
56502 18860 67756 28781 96499 72628 88620 08729 52016 17284
88172 92465 23525 53697 38329 52338 11603 53973 20679 76636

34434 67691 51451 63190 39540 99341 62447 92752 14452 80387
55108 68104 25976 84400 69914 29819 42780 58689 38317 84627
20952 70882 09358 07315 57244 93874 68201 02091 39677 77606
88736 34373 50193 81082 87453 68913 99051 63093 70777 75212
95646 55058 93044 86156 _____ 12081 47692 82146
96181 07330 53690 92416 14852 66854 30137 08530 63527 44445
57417 82867 31445 97881 57406 64724 39652 80320 _____
_____ 77746 86686 26320 50749 87136 79947 21752 61346 46285
01331 30975 89596 51238 09739 16934 67386 22244 85501 51654
81765 04194 76285 64571 10364 12461 70072 26124 33082 60095
74855 65030 12234 27297 09777 42695 58338 59116 37369 43419
00000 +++++ +++++

9128/7546/5113 kHz, 30-09, 1015/1025/1035 UTC

60419 66000 54379 32150 93013 45373 12446 24505 44878 55051
12130 76958 65095 84857 99594 80551 85022 47316 91138 60218
21483 62359 40505 30046 46853 76512 78539 10367 68232 27490
79917 80090 82876 90131 36592 62734 02102 64633 42682 69581
60815 92993 20461 48405 54893 14625 42155 11200 73568 97056
27231 39343 19032 02682 19849 89654 30422 77466 76190 49751
54405 72580 16329 16175 29513 47065 00000

30633 49794 95431 90077 07154 94501 79762 67176 27184 53953
06632 15088 62214 44663 28887 24499 72885 80844 47656 26314
15061 23529 51669 57028 10451 52437 70353 92950 61474 59032
32883 14213 15047 84215 50379 84494 04982 49078 63433 57419
27692 52165 22160 45542 30879 31671 90947 12867 19902 16022
95106 76850 11504 11272 51607 30801 89592 98754 51070 22639
42760 41423 83235 50928 88224 22319 23057 64145 11891 63611
19637 74094 79203 99638 55184 19430 96499 02387 66174 40212
27527 82854 43900 49431 94829 16728 56614 12445 20686 67814
60434 70266 87280 07663 91207 67631 20809 54816 54517 71791
29187 48101 00000 +++++

F02 – Russian domestic net

14983 kHz, 16-09, 0800 UTC
16303 kHz, 22-09, 1437 UTC
16303 kHz, 22-09, 1450 UTC

F06

Link 00000

9274/7614 kHz, 01-09/02-09, 0800/0810 UTC

11100 00000 25471 29006 00799
28104 17989 53017 48204 09439 92542 69770 74833 71653 22678
84421 11218 85532 33392 52301 60745 76680 71042 71874 24114
65457 96774 20623 22493 01540 53093 56649 49304 41555 45764
96943 05293 43213 08238 08246 96596 74385 40780 71444 00486
60556 41492 05447 28466 19097 71422 61462 41436 53787 20938
23626 96578 08038 69558 76918 30679 00230 56436 28298 09562
89629 03659 91998 98318 46304 59586 74925 32034 23480 54380
23081 91678 55773 84939 14972 14873 31752 06077 00000

9274/7614 kHz, 08-09/09-09, 0800/0810 UTC

11100 00000 35741 05007 02139
51821 25128 24974 06824 34366 14539 07725 60281 06338 28578
02637 27469 50615 17749 17771 01396 70800 67805 95639 38347
41941 97130 18864 79921 89484 95237 21398 02901 07383 57056
78760 64146 51301 92727 75701 32695 67859 17554 74749 26250

45848 51828 34082 94258 00352 85204 48138 14758 25721 85312
09432 97169 78330 55293 14994 08257 75060 69950 65870 63389
18436 45204 33140 50353 84364 20529 88859 77847 33409 59071
25396 65887 31537 95127 11573 20282 91271 83676 59070 58389
69198 31643 97514 78320 80752 15598 81700 88794 18233 15561
79380 41821 82970 19609 13049 35403 67599 78977 54182 78452
49362 18325 93341 35089 80383 30876 34610 90534 85863 13102
87762 05765 06104 18650 56651 53125 43337 36188 47195 50088
99263 20875 43458 33348 14256 34118 25215 40426 44159 71332
25465 90990 35627 82364 51329 85065 85930 14285 16753 60328
98176 31234 60473 75671 67871 90997 47671 13221 61775 83017
78751 16002 74977 57511 53698 03439 77124 00389 65425 31866
83757 33667 20569 92256 13677 46050 11162 62336 18283 83380
85628 55285 93823 53635 92522 32208 12495 26165 95462 70559
33321 29854 82703 05713 78759 79900 19756 87870 87969 87890
18532 21478 82671 34864 21413 79357 06546 12057 23708 08735
24107 59000 82923 71340 89980 53683 88290 84786 24534 34442
88980 07211 00000

9274/7614 kHz, 15-09/16-09, 0800/0810 UTC

11100 00000 86531 12008 03359
96793 93093 16989 61193 94422 89619 75831 07833 46688 30957
05889 91672 17165 57207 93878 52339 09137 85552 04501 82244
04268 97335 84575 91056 03708 37342 28227 75348 95079 42485
89034 23107 93777 42064 50093 07792 32029 96799 87926 51642
94139 68817 91178 62895 21371 39791 20033 76626 34881 19397
17292 53892 50176 11308 07052 18854 81494 28879 41909 38581
59575 77741 84650 75221 11245 47461 35343 65216 74249 79487
39775 05257 45788 03543 40182 49664 88170 59661 54199 48887
40040 48064 92965 83796 06601 74049 54333 75467 27290 80091
52111 75141 44326 82332 67276 64048 20571 53655 32101 17780
80152 20535 83122 14903 70273 65832 43905 94496 67650 54744
23515 92301 78018 26082 41664 10176 02142 16067 16449 98531
66766 06837 75620 56453 43946 16843 77330 79173 07193 75332
51292 07609 97871 48102 96278 59622 00300 06700 94911 47721
48957 58280 31678 12863 16284 78292 25096 29064 54463 13178
09987 58494 89657 45283 30782 61751 92116 37168 31793 92997
70610 97490 55405 34642 64602 35663 84111 51267 32630 97470
87330 67481 60302 98822 58949 99378 36368 99849 56527 94305
70291 86511 78099 58613 49759 51913 37506 78086 61579 94517
24205 60733 24385 75438 58490 56631 06600 02006 78056 34504
28093 29783 16853 19731 68957 00234 62153 23466 33864 56219
00793 17558 45414 02512 90500 34961 64930 03521 17265 00318
64136 35411 24672 20405 96140 34799 26159 89140 39185 11228
36108 86809 11578 15588 80731 78236 81258 81693 74675 39556
18428 83180 74284 68292 64683 72933 43467 56422 17094 97213
93092 31118 50656 01683 79861 92850 27566 71508 75587 05546
66741 72741 42825 18475 72039 87148 77783 24579 42604 57689
06465 84894 13777 86824 44959 73791 02012 54845 59839 24694
52231 50411 89587 80974 11068 30479 13005 81719 74409 51813
75513 37036 82711 41271 09327 72603 62490 97040 08387 48149
37454 38025 44034 79535 57693 43554 32337 19150 20376 50627
89017 74283 80390 00846 32909 68185 74362 54257 23892 73474
06484 12273 46238 72613 69604 16853 73297 25111 00011 18153
74481 46152 89332 08333 00000

9274/7614 kHz, 22-09/23-09, 0800/0810 UTC

11100 00000 54821 19009 00839
29974 41741 76117 47004 28044 49112 72970 05784 67063 32604
46374 22341 46662 60263 61042 17681 34049 54058 31383 61676
42724 77154 26623 42420 97991 55273 46332 87632 62740 99312
02311 17800 21906 21436 67744 35751 49071 61794 79596 82332
03625 68088 05155 12896 31928 95145 08671 74267 70921 16708

79044 86896 77611 66611 04475 61866 32874 51548 05018 07451
93005 02600 59005 04923 87479 57723 84230 58269 86316 92389
59872 47540 85529 40545 00071 40478 84069 73096 15103 42154
50717 09081 00000

9274/7614 kHz, 29-09/30-09, 0800/0810 UTC

11100 00000 36125 26010 00979
31816 34523 95680 12069 34423 10410 47093 17586 47172 14316
39205 99946 62406 79810 74120 15930 70344 64596 48431 63899
14832 23036 84607 84505 15603 11199 24988 74376 55482 16618
49302 17485 55961 29938 01665 63874 89600 00646 37983 10440
02673 44072 29711 63450 46510 91848 84887 87487 40971 03013
72396 70505 18480 77936 60391 59689 22064 42285 04813 47801
55839 93178 48941 14701 11372 24743 19927 53733 18350 75248
33228 37666 93024 63021 40891 03861 82820 03303 84625 63373
30600 23258 39592 63671 06973 17319 59860 59645 84120 10045
61457 72612 49560 18685 03951 10095 00000

Test/training transmissions

14432/12209/10271 kHz, 12-09, 1100/1110/1120 UTC

11100 00000 13578 11001 01529
30855 67770 83922 21979 20952 95223 68430 92750 76023 76931
10196 75030 91300 55827 32743 05750 23006 45807 44496 96734
53774 52600 11870 43900 57394 91218 15268 50998 36301 67175
23932 47611 30264 13661 50571 06055 19697 01869 71723 86913
72042 66639 24764 67863 04655 14643 17521 35484 62625 07252
11425 44756 34989 35317 64129 75911 57745 28027 42540 43340
77131 63029 42195 36231 71589 70014 73928 95642 55864 44944
03757 57687 15663 17112 56925 17511 46321 36217 22051 93765
93910 71657 16305 98258 22225 41203 97563 40460 54082 11264
34470 21568 60380 35919 70342 97801 95347 26906 41872 17635
01416 71754 38541 62627 32167 42252 13699 46568 66778 60431
83235 52605 14410 14256 72796 13041 31973 40216 99466 61508
03715 14988 98857 12183 56055 23381 33555 45740 06115 94723
43843 06735 67373 24913 26651 42102 60898 26278 53666 35445
05564 72477 64538 16823 85730 30593 96122 52714 19787 97626
01150 00000

14432/12209 kHz, 14-09, 1100/1110 UTC

10271 kHz, 14-09, 1120 UTC. Idle carrier for 30s at 1119z but no 1120z transmission

11100 00000 95612 13002 01629
86971 22359 91278 02862 55987 24055 33544 36525 03066 88700
80284 74019 40657 83014 62431 31703 34021 25645 10025 18728
98725 18441 27300 06255 15442 64143 99912 57297 47952 00194
82722 59412 75322 03344 41585 27401 74171 44747 47585 68221
11975 00238 47144 25290 37343 45459 56452 44375 78209 90556
53646 28250 83861 34097 67186 72306 71764 40922 83852 98314
65104 73611 24816 28516 31987 32245 63211 67226 62242 82159
81648 82162 42759 74372 93106 02647 17292 88377 73642 76901
41682 51986 80349 55615 70421 17907 53018 93962 35503 01753
22916 89265 03501 11163 77134 96493 21796 20720 51945 88781
89914 72362 53595 55145 16891 05966 29979 52610 50608 49795
41626 54902 90051 25499 05452 64922 16400 47349 09685 83173
03911 20403 23438 49325 96528 67280 49332 99126 61145 38239
92637 03820 53464 84240 45346 84275 57404 97692 08625 17014
83960 50549 02092 74313 40494 84470 33337 65584 06356 32713
26140 72202 75804 78451 30816 92985 54136 79207 65128 42504
02160 00000

14432 kHz, 16-09, 1100 UTC 11100 00000 59312 15003 01729
12209 kHz, 16-09, 1110 UTC Idle carrier for 2m30s at 1108z. No further activity
10271 kHz, 16-09, 1120 UTC No transmission
11100 00000 59312 15003 01729
51749 29915 33635 68670 10919 06948 83235 31336 59964 42789
75565 58909 28910 50229 62938 29725 68283 51212 76622 82922
62728 88665 04773 01820 16600 98201 69663 93860 22459 94365
77684 34332 48425 51121 40528 66045 05304 81265 91002 72155
79445 44454 41911 64310 42259 38529 61437 53330 72324 53829
63472 94582 51045 95190 36319 25255 17762 01291 58212 35718
95289 16061 73093 42145 21793 91823 25081 52594 49951 28869
75060 43742 99346 81129 47850 90437 73005 82666 83367 15281
74048 74643 90231 50414 83368 37470 25253 28695 84279 57815
47238 46465 45082 85164 18539 65078 95473 57626 52807 43392
57740 01650 32368 18399 18678 35368 43665 76193 53169 30238
04205 80457 35357 10663 79444 50650 98357 96302 13067 07098
28444 16737 19053 25161 04638 53180 09027 65670 19650 86943
53285 73827 43111 59312 98950 63740 13015 72541 93698 30796
66331 86650 88486 59052 44713 91710 17723 15835 36236 60300
80313 50735 39112 09831 70030 41177 58318 29421 28629 51769
71068 51005 20155 99601 22067 69374 49891 42694 34492 40829
03170 00000

9300 kHz, 18-09, 1850 UTC
11100 00000 25813 18001 00129
10041 86475 52703 99047 06531 46405 01371 95597 95887 28877
01010 00000

Link 09501

17532 kHz, 22-09, 0100 UTC
11100 09501 00000 22066 03679
16782 77925 38439 94023 57169 24706 74975 81953 83517 92189
02346 24712 07595 67810 75659 62563 29331 19258 48584 14893
75898 08637 37865 71555 02217 13748 23490 62453 82574 04934
26690 16269 48050 50938 32950 44293 49419 52196 52237 10298
50238 25010 33616 72373 79798 85039 76446 07676 00618 03542
05361 56027 70179 34812 01180 43297 01600 38245 04994 70509
52896 43466 37557 79605 99573 31964 01220 31807 70179 33669
56546 59516 49553 61910 90849 77686 79424 35179 20793 65602
11074 59163 96264 55006 89718 67455 97711 85516 75341 44404
44120 13263 29614 78526 53819 83680 23635 19916 25314 04406
46149 40110 30320 79206 16947 17819 36194 88882 35122 98979
99945 30080 16888 04566 01020 47950 02620 84580 05036 23592
37836 41685 75671 02225 57783 72895 76877 73012 30328 02772
32614 36491 36835 06565 36291 20527 95717 46728 27107 30754
58355 71253 75464 46411 32063 47258 44663 97542 09798 28266
21040 84463 11286 78611 29763 25468 65272 03416 78450 43683
87562 57568 95813 29027 34561 32142 57504 36201 36976 41691
16359 04654 43396 60873 79223 11458 28412 83810 97543 93028
44980 04652 63925 96635 25710 42767 31822 47630 62763 60994
00566 43337 21059 50408 32917 09541 64461 80012 97315 80512
99646 34826 52034 88501 67334 90777 13406 73644 35562 99853
75324 50217 74708 83941 72205 90173 18937 60801 02588 09909
43749 50599 55565 71179 14348 36454 07242 32122 84481 77411
79395 09309 50465 97311 77528 36777 90069 97965 50510 32960
40952 70083 38977 11479 98335 00399 04706 96706 36608 98423
58113 30066 84535 91260 26102 77980 08775 59931 27420 77421
85380 15634 47725 80000 63979 39390 31551 80521 54313 33499
33346 40954 89832 58256 94790 45745 48026 52352 40564 49424
32180 60407 09762 02425 44242 16073 65142 66070 03500 54130
47392 52654 90731 50040 66599 51558 22550 10364 48121 27342
85590 62502 75036 00740 85267 17193 94361 48513 88758 02192

79230 83081 66917 90588 64212 97872 64800 72189 95966 89344
55490 41400 66416 91597 56919 00051 20625 84517 16351 98887
75346 04418 41183 25763 69404 69339 93099 02718 64234 54638
56709 52208 31121 65532 59795 30331 56290 58545 90731 38491
50147 21409 76433 67315 31815 54434 37654 09663 65000 00000
00000

Link 10053

19351/18517/13527 kHz, 02-09, 1650/1700/1710 UTC

11166 10053 25813 02078 00049 00000 00000 00000 00000

19351/18517/13527 kHz, 16-09, 1650/1700/1710 UTC

11166 10053 13579 16001 00049 00000 00000 00000 00000

19351/18517/13527 kHz, 23-09, 1650/1700/1710 UTC

11166 10053 95184 23001 00049 00000 00000 00000 00000

19351/18517/13527 kHz, 30-09, 1650/1700/1710 UTC

11166 10053 74523 30001 00049 00000 00000 00000 00000

20931/19219/14389 kHz, 07-09, 1530/1540/1550 UTC

11166 10053 19537 07001 00049 00000 00000 00000 00000

20931/19219/14389 kHz, 14-09, 1530/1540/1550 UTC

Wrong 668Hz shift. Undecodable null message

20931/19219/14389 kHz, 21-09, 1530/1540/1550 UTC

11166 10053 25813 21078 00049 00000 00000 00000 00000

20931/19219/14389 kHz, 28-09, 1530/1540/1550 UTC

11166 10053 13579 28001 00049 00000 00000 00000 00000

Link 60070

12077/9055/7989 kHz, 02-09, 0030/0040/0050 UTC

11166 60070 13579 02001 00049 00000 00000 00000 00000

12077/9055/7989 kHz, 09-09, 0030/0040/0050 UTC

11166 60070 95184 09001 00049 00000 00000 00000 00000

12077/9055/7989 kHz, 16-09, 0030/0040/0050 UTC

11166 60070 74523 16001 00049 00000 00000 00000 00000

12077/9055/7989 kHz, 23-09, 0030/0040/0050 UTC

11166 60070 13579 23001 00049 00000 00000 00000 00000

12077/9055/7989 kHz, 30-09, 0030/0040/0050 UTC

11166 60070 95184 30001 00049 00000 00000 00000 00000

Link 70059

8163/7450/6789 kHz, 01-09, 0400/0410/0420 UTC

11166 70059 95137 01001 00049 00000 00000 00000 00000

8163/7450/6789 kHz, 15-09, 0400/0410/0420 UTC

11166 70059 95184 15001 00049 00000 00000 00000 00000

Link 70202

8183/6839/5264 kHz, 01-09, 0700/0715/0730 UTC

Barely audible, undecodable

9188/7673/5872 kHz, 01-09, 1200/1215/1230 UTC

Barely audible, undecodable

8183/6839/5264 kHz, 02-09, 0700/0710/0720 UTC

9188/7673/5872 kHz, 02-09, 1200/1210/1220 UTC

11166 70202 56741 01030 01779 and 11166 70202 23568

Messages not decoded. The signal was too poor

8183/6839/5264 kHz, 03-09, 0700/0715/0730 UTC Not monitored
9188/7673/5872 kHz, 03-09, 1200/1215/1230 UTC File 44432 (binary contents)

8183/6839/5264 kHz, 04-09, 0700/0710/0720 UTC
9188/7673/5872 kHz, 04-09, 1200/1210/1220 UTC

11166 70202 96381 03034 02039
32949 33226 61307 98846 07680 66692 44325 11939 05408 65391
39092 57429 72251 27211 07049 60471 68908 93422 31166 38456
06277 19720 71157 37094 73616 30974 02921 35301 46305 51144
71055 07227 86312 73696 99425 42246 02932 42823 67302 53292
18787 99157 93626 42515 99606 22842 25588 85567 00674 26334
19473 90459 02258 22534 40226 84696 65514 63876 84413 28916
76363 42492 63698 78147 95444 46940 53337 74162 68829 51411
18392 87857 53904 32354 63751 31827 29442 37618 73548 26229
68670 70522 25295 38184 80011 12313 95901 80641 45187 31434
01787 81665 09371 53051 76397 06641 45340 70800 55699 82083
17910 13845 88990 24329 35316 67998 76528 51622 48620 45455
08000 05297 50418 73043 15407 19249 52729 09526 86788 05202
73696 03043 32694 63352 92463 27034 98819 76757 08192 32619
08618 70958 84445 36122 17302 70106 58336 93884 35454 46404
73778 28391 07086 88302 56084 43339 45695 34572 22966 02591
02005 95587 21373 41258 28411 92484 27761 70508 00161 73550
18794 24799 20280 82598 31976 58821 73033 70026 39674 11333
11855 76227 84947 78078 92695 42062 52638 60980 88712 26062
74151 85781 47244 33062 89357 05333 75010 83944 14073 30722
62474 81185 86534 33193 00000

11166 70202 96381 03034 02039
32949 33226 61311 16670 20225 81903 03301 95945 58882 13171
40798 84607 68066 69244 32511 93905 40865 39131 74936 96861
40956 22122 74489 74182 13983 55774 60608 86596 25443 76709
68483 59512 60468 58572 43117 88213 99971 87351 78143 81389
68087 99157 93626 42515 99606 22842 25588 85567 08733 25977
69687 52785 01360 86534 33340 44006 65514 63876 84413 28916
76363 42492 63698 78147 95444 46940 53337 74162 68829 51411
18392 87857 53904 32354 63751 31827 29442 37618 73548 26229
68670 70522 25295 38184 80011 12313 95197 01058 07853 39635
47776 28072 06533 69995 40251 60059 03087 87284 24312 68285
00524 39514 28177 88592 43969 51336 85559 93322 89042 45455
08000 05297 50418 73043 15407 19249 52720 86981 95986 70229
16283 89410 37755 59911 32463 27034 98819 76757 08192 32619
08618 70958 84445 36122 17302 70106 58336 93884 35454 46520
63502 09327 31320 72170 88484 43585 77754 40473 77828 39107
08688 30256 08443 33945 69534 57222 96602 59102 00595 58721
37341 25828 41192 48427 76170 50800 16173 55018 79424 79924
60151 62501 95729 81273 91203 02815 50193 56258 70382 74580
61309 38024 33875 83995 61406 69929 82031 25661 62722 84326
07463 91803 47266 70631 29089 11284 05605 88006 49340 04327
54267 34201 00000

8183/6839/5264 kHz, 05-09, 0700/0715/0730 UTC
11166 70202 51247 04069 00049 00000 00000 00000 00000

8183/6839/5264 kHz, 08-09, 0700/0715/0730 UTC File 44435, undecodable, very weak
9188/7673/5872 kHz, 08-09, 1200/1215/1230 UTC Not monitored

8183/6839/5264 kHz, 09-09, 0700/0710/0720 UTC
9188/7673/5872 kHz, 09-09, 1200/1210/1220 UTC

11166 70202 65347 08036 01139
80952 43605 29637 57366 77443 77866 69645 49262 37884 93383
56280 40082 42215 76260 27068 27489 03925 94789 02736 86485
29829 17117 69312 48651 60038 29797 64618 03364 17774 05654
11344 31917 23745 94399 63891 10499 54760 34450 61177 42944

51265 09356 02579 09220 03495 97313 89210 40562 70922 87174
97725 57213 14704 59394 78814 29698 47789 55363 97608 49569
32404 83553 58161 20561 79582 35917 79196 06094 30430 12981
13318 94066 23820 81061 26861 64862 80202 10061 82577 73522
56211 65247 92339 82019 49757 51493 32049 02554 60308 33386
35945 37838 34016 79654 12490 29282 48407 05351 49027 49024
16307 10222 97392 96757 13691 36712 57679 87269 61145 96032
02322 36111 00000

11166 70202 74690 08037 02099
09346 29729 67156 85005 18562 86618 46963 67375 79800 03356
01237 81030 06280 60650 81642 99891 20603 11539 28439 75626
07931 90976 37176 64859 20806 83723 16888 13914 71580 30225
38235 93252 73374 75165 95018 98809 15514 88381 27516 62416
84367 12834 81066 38483 65543 19309 98353 59149 88362 72553
68810 75069 98560 38520 83593 24040 70141 87408 69564 94633
92341 72204 00705 77053 92616 87386 10420 18375 81604 37501
53149 24369 31009 70282 88739 75095 20310 54018 87999 46459
13282 03838 82895 54903 50217 86611 09803 67435 66819 59151
19267 44179 75690 19405 50703 05626 71354 75317 95476 41786
44752 61063 96801 05417 18150 55328 59888 56528 36388 81320
70783 50335 75426 93222 47344 85864 54101 78745 70773 57386
60046 32485 71160 75868 25716 79772 65463 52638 15438 55691
71368 62437 09437 68970 45472 28059 95778 05411 19208 93755
06149 50568 30969 79603 56425 36349 77864 34007 77971 41227
35534 26547 50590 98754 19470 48331 73069 94065 86281 12072
32274 53059 98337 69037 56700 53932 00223 85104 65445 15781
80455 43065 48524 43926 16886 63401 39468 36672 29232 60696
66154 83175 87180 77883 90783 07117 47485 65512 74965 35858
18518 98221 30837 99779 75686 45609 44148 91474 76177 39677
80263 39503 46450 06056 09010 76373 40922 37207 00000

8183/6839/5264 kHz, 10-09, 0700/0715/0730 UTC File 44438 (binary contents)
9188/7673/5872 kHz, 10-09, 1200/1215/1230 UTC File 44438 (binary contents)

8183/6839/5264 kHz, 11-09, 0700/0710/0720 UTC
9188/7673/5872 kHz, 11-09, 1200/1210/1220 UTC
11166 70202 74613 10039 01179
97515 67196 15419 20096 08711 39857 70647 98356 22991 88150
06639 01217 03279 76859 73152 81751 11318 71515 56915 43885
93167 09617 56420 10133 86666 81694 06039 35921 61805 76939
22892 37690 29951 73062 74908 26939 82856 75086 93517 67424
47385 32741 79401 97689 66907 91169 74754 86107 45285 54618
00488 10643 14395 67800 81804 80492 11126 44626 10600 41824
74784 98985 18108 34774 00847 57263 56247 93902 12001 57282
11087 09301 32404 63364 96885 90522 76108 52187 04134 00538
85576 49130 00034 51894 81239 19795 04860 82273 08020 46394
92639 51626 89774 43687 89581 28082 27573 94151 68699 54813
02773 07088 64063 15038 70809 31329 53121 37370 56650 76258
80515 08672 87844 20811 21849 39115 00000

11166 70202 12859 10040 02279
97641 94842 95928 45064 75694 10761 06420 65200 80705 87048
91977 53333 21803 88368 46009 01957 63784 25307 29428 30555
53649 55783 21454 58344 78086 41243 44336 46655 69107 43582
91698 59372 00015 73715 15171 14879 38884 27760 49022 27953
51758 71743 77461 65026 72730 60783 74307 61274 83120 03689
69700 72950 66902 08893 23565 63415 34611 72686 10486 46297
32872 95660 45708 34213 81780 38321 06926 66498 07289 51792
31574 14378 60805 44560 94281 87012 43189 71185 94198 86864
75323 53930 06869 87818 82460 73229 80341 34488 84521 87948
80207 86157 09546 71364 13254 53787 72468 73804 84414 03524
86414 47885 66709 25148 98705 97284 88860 88908 68763 34992

70272 39165 30080 61957 58061 98291 03483 02100 45823 79263
53829 54597 78828 30384 07368 49393 75330 60563 71918 16872
18670 18618 27078 07626 99875 24996 76628 23264 15435 79392
80346 44182 49928 92674 07388 65256 98215 16564 78444 75375
06864 69509 88861 41759 39493 82186 29891 85006 95742 11072
50286 55791 38536 93507 25410 49168 09332 42720 26055 17407
36053 06208 04150 67299 63377 35956 37556 52879 60083 43894
01134 99487 83128 41051 56255 20127 03154 83839 75978 10029
21110 75906 48036 30395 30672 98981 22854 17226 06150 71177
98779 76186 20575 56158 61692 49448 23646 71633 21207 65438
34229 70600 10647 07435 27095 93779 42962 61952 18580 16678
39809 32846 80863 39723 75947 40225 00000

8183/6839/5264 kHz, 12-09, 0700/0710/0720 UTC

11166 70202 98712 12055 00049 00000 00000 00000 00000

8183/6839/5264 kHz, 15-09, 0700/0715/0730 UTC

File 44441 (binary contents)

9188/7673/5872 kHz, 15-09, 1200/1215/1230 UTC

File 44441 (binary contents)

8183/6839/5264 kHz, 16-09, 0700/0710/0720 UTC

9188/7673/5872 kHz, 16-09, 1200/1210/1220 UTC

11166 70202 32185 15042 01279
54202 81914 79801 67852 36065 16358 36182 63048 40930 97118
82212 04633 07466 30201 86270 01260 87808 95604 19910 43485
73684 21657 48284 49638 94496 19217 19890 08264 98323 30414
29058 84349 51771 71646 49636 81495 19600 75485 63311 77240
10083 61206 30981 73713 97023 88612 80645 30805 54364 74852
10228 74049 64334 78910 28783 94394 85076 83457 84514 82063
88672 28765 53057 61676 05524 78335 84434 20835 36014 20985
32160 49348 15399 39014 12899 31293 42848 97199 70131 57094
10594 32259 40259 47808 94108 47503 44598 08804 89254 42346
55671 55025 07351 31361 11272 75023 64081 32586 74711 25947
23186 29747 64689 76673 80886 38098 03247 41276 01956 28555
55203 70008 43400 89831 57551 89995 26665 33236 62222 12825
44322 69842 40671 51208 12160 42125 00000

11166 70202 41769 15043 02199
70050 89924 36375 21750 27719 45554 62187 45290 98578 69440
48612 07578 36929 76126 58567 49262 51265 09332 91880 50603
23534 56988 54201 44799 19504 21837 03745 20469 44935 21035
43063 49230 27238 13196 48015 99324 27310 76316 51138 21198
11233 85014 21594 16007 36520 60525 08888 22964 32603 91884
42552 86467 80249 51743 04957 88963 19583 55248 19473 60452
41413 35428 21136 00611 41549 33518 02034 74433 42795 27663
48572 67355 14298 48441 12841 10786 42956 54640 85231 13983
36563 67720 60521 63220 63375 88412 14606 74171 57795 43878
34052 08460 46854 38877 65679 90298 77182 09373 78348 84173
47159 02022 54136 19493 73922 27970 51102 73151 49926 64416
04821 45940 68747 02357 60865 93738 24804 63958 55449 99436
16698 38008 86385 96509 08855 06857 41574 80195 31147 63308
77193 67205 21203 40884 62788 89902 39070 05913 35437 35905
08933 84861 30192 69017 67571 25369 78971 92463 24239 14402
95102 40330 61659 01982 85689 08183 32821 03908 59011 58766
33263 81932 19112 63749 53534 24806 64799 67440 41514 78643
35219 83409 29290 00044 69196 59962 04265 30398 70541 75398
29199 14831 96491 48990 40860 14205 11494 78624 81974 83630
73496 41037 46167 15917 44960 15592 40579 73402 45752 17523
95844 56600 90130 51589 78122 83096 74993 22082 82865 75146
11587 60110 15012 79390 17859 54115 85293 43217 00000

8183/6839/5264 kHz, 17-09, 0700/0715/0730 UTC

File 44444 (binary contents)

9188/7673/5872 kHz, 17-09, 1200/1215/1230 UTC

File 44444 (binary contents)

8183/6839/5264 kHz, 18-09, 0700/0710/0720 UTC

9188/7673/5872 kHz, 18-09, 1200/1210/1220 UTC

11166 70202 32698 17045 01059

83877 98159 26579 85487 47898 43357 83015 44810 54717 51041
02166 08171 29410 13065 50694 20887 33497 86715 38448 24259
08811 32792 02606 45069 68725 90504 75906 05484 91435 62620
06151 89310 94977 09309 19161 25534 98668 74110 42380 75082
00669 90474 31310 31741 26337 42299 65961 73179 27077 76912
09517 23002 34360 93934 46386 09775 98612 58459 41843 33964
67650 11976 90433 78720 84351 79501 45337 25451 08260 96327
45879 60107 90796 02841 85367 81144 58777 80840 86456 45066
85910 29808 76210 10515 56980 06545 78069 66825 54385 76633
62887 57998 21731 51150 26251 38012 84164 07065 84247 18428
30125 14782 04877 45103 00000

11166 70202 90547 17046 02019

51685 41354 89009 58328 57635 30160 59853 04347 35308 99286
23677 86184 16979 64492 06116 41271 11065 49173 05767 45667
88266 33869 35462 89200 01029 72274 96073 13209 15974 72188
75010 71811 64021 64846 86623 02654 37867 11063 96684 18064
91512 17635 98136 52556 21531 62432 30302 27623 34767 51616
58735 19742 32138 57431 57906 42547 63245 09990 63905 79104
31472 41509 89353 25209 54250 06419 17710 29668 08204 25792
19154 42483 13828 29525 55248 06888 39415 94707 64548 56169
28910 03629 46365 01206 83368 69843 84852 19676 50722 05743
80616 82854 03533 30071 82037 80950 09422 38814 33476 32914
23859 87910 82569 91654 60005 61214 13796 80611 15297 22147
00493 22599 59449 72483 92521 46884 13578 66698 81767 85419
75116 55322 12651 94175 68229 55734 29855 60508 24396 73836
80442 82495 22855 25042 12554 31193 45608 28022 37880 31724
26654 69639 50086 24168 00152 64514 16382 90162 77196 57652
84430 56171 05898 43579 71763 09344 94445 00421 29914 86916
01846 62352 00444 25082 26032 78872 05043 78271 44015 34331
36912 44782 83777 26140 45590 59690 32596 25122 32436 40989
11469 66423 98932 99886 70350 44427 15021 51197 83877 10113
99633 84772 52258 94290 30625 83902 37038 05154 26284 46199
00000

8183/6839/5264 kHz, 19-09, 0700/0710/0720 UTC

11166 70202 95482 19021 00049 00000 00000 00000 00000

8183/6839/5264 kHz, 22-09, 0700/0715/0730 UTC

File 44447 (binary contents)

9188/7673/5872 kHz, 22-09, 1200/1215/1230 UTC

File 44447 (binary contents)

8183/6839/5264 kHz, 23-09, 0700/0710/0720 UTC

Not Monitored

9188/7673/5872 kHz, 23-09, 1200/1210/1220 UTC

Nor monitored

8183/6839/5264 kHz, 24-09, 0700/0715/0730 UTC

File 44450 (binary contents)

9188/7673/5872 kHz, 24-09, 1200/1215/1230 UTC

File 44450 (binary contents)

8183/6839/5264 kHz, 25-09, 0700/0710/0720 UTC

9188/7673/5872 kHz, 25-09, 1200/1210/1220 UTC

11166 70202 25483 24051 02059

55463 89164 60029 60035 83046 10781 26730 87334 91922 34165
24126 03927 59197 73245 38819 02673 23360 66435 67744 67529
75655 02268 90055 51767 44922 12304 75450 38322 93063 17271
58600 30696 63361 37361 34382 47883 48802 02623 53601 21721
72616 24392 23891 20131 98204 13694 45468 44664 10653 57554
36448 75815 37013 89161 27394 64515 97544 12810 29789 93260
05095 69567 08130 55306 54814 54603 10313 25360 71396 22115
36010 20224 06016 38788 47728 72811 00163 71731 54221 67979
58570 21815 20958 13617 98392 38368 87328 45425 66856 76152
95278 88821 44548 80559 59050 26420 76539 11973 30729 44504

98522 45222 41278 56950 50164 05077 21750 30023 92844 23712
34354 56493 73984 31080 68086 52505 05142 14133 78589 75636
46056 05834 76937 87588 11852 89883 97042 09943 45565 32114
96351 46418 23185 74470 69540 70072 83418 52542 79877 98882
99330 22555 37953 08143 34081 08774 82461 53111 47922 07264
42715 00353 48658 06921 87594 91210 02746 13740 90599 85844
49232 89233 65713 61265 83702 38950 53744 61824 04450 12033
63848 25570 38020 97738 99919 34928 86357 29886 26521 65129
62709 35131 54060 28838 08488 86040 47891 40398 08282 44888
91028 48153 45194 09100 55159 08271 63705 94313 59647 98500
32238 15956 23211 51203 00000

11166 70202 19305 24052 01739
32945 67743 27824 68729 51180 55153 68964 09651 05615 45106
50904 96519 07353 98476 79741 43490 20501 77474 49897 14549
99344 00279 61036 26830 98669 61393 63584 96994 99411 28664
87559 04116 16833 52887 34389 67503 83401 50963 36395 62911
23561 48513 13654 25558 62594 92912 82897 13397 36741 72667
98160 29093 96786 04081 27846 24107 22288 71137 97907 33365
88628 29551 55835 13923 54106 10909 35127 86069 59208 87850
24932 00319 55301 86220 74564 78705 04889 55130 87566 03848
20642 30868 85000 54193 35392 55593 42684 08892 20265 36756
32022 70743 93139 58175 19147 80644 84643 78709 02048 21974
53834 79474 90373 38362 70794 45521 57600 13275 08295 92931
20247 84849 09739 77259 23832 94427 25549 44258 40257 92207
35215 08826 06297 48473 97160 73118 57900 43819 93637 19754
39972 36824 62822 41056 96330 32597 35309 90268 69534 00641
17188 65678 65254 15473 86881 63588 60883 18437 97957 61078
63079 24141 05067 14482 43912 19959 55220 84524 10318 32048
11595 24069 86534 56293 02031 89381 14227 77640 09432 60881
99955 52171 00000

8183/6839/5264 kHz, 26-09, 0700/0710/0720 UTC

11166 70202 52846 25067 00049 00000 00000 00000 00000

8183/6839/5264 kHz, 29-09, 0700/0715/0730 UTC

File 44453 (binary contents)

9188/7673/5872 kHz, 29-09, 1200/1215/1230 UTC

File 44453 (binary contents)

8183/6839/5264 kHz, 30-09, 0700/0710/0720 UTC

9188/7673/5872 kHz, 30-09, 1200/1210/1220 UTC

11166 70202 69271 29054 01579
67765 06948 65894 02093 46890 97242 42577 70824 13506 27048
84915 97414 62656 62285 51010 89830 96449 99898 32587 16730
83355 83081 24885 25674 92982 93945 83756 97363 11047 47073
87159 21861 64187 32378 43234 07704 09345 80725 12143 59890
67369 50743 33878 87627 05563 60262 79202 27813 98827 10817
65930 95180 24118 78662 07726 95030 67881 70717 87603 59511
51175 68902 73333 93355 02144 11276 16917 40046 30548 83445
05339 04311 84039 18650 54778 91920 90846 29987 65456 52690
18586 23195 79326 37660 03873 63445 07769 06358 32412 94575
21513 45107 74275 34202 19932 82305 04033 93141 21938 11606
60441 92597 45637 58957 25370 77534 68940 54423 26649 49672
88325 94722 94533 68562 17927 07438 26466 94156 96144 52805
39834 69317 91963 24064 17395 65715 28163 32252 75066 41535
63610 86433 06774 84439 01827 05261 86026 38222 18004 20826
28926 36590 21674 60735 48287 92514 97199 19345 53555 16585
89296 54089 76219 62800 25753 54155 00000

11166 70202 25846 29055 02039

24397 12897 32959 65841 41853 48699 85723 54182 84960 65283
44098 74407 83219 19116 10225 11225 05175 52891 72438 55707
28130 37874 85783 51594 88440 19092 66678 12404 85798 30537
37688 89027 39971 72572 83330 92503 23406 68745 02852 01651

18161 44168 70911 10256 70587 92677 42121 93496 42200 24950
60361 98295 80180 14757 58827 87280 55944 85560 61728 91050
45213 04617 23594 48426 48030 76799 67101 39382 72147 55307
05391 40335 28242 11461 59782 56489 10371 30762 08839 10914
60131 27418 29722 95053 37940 94502 17764 10344 49883 31958
95197 55637 03572 19605 44999 40108 91431 27371 30742 26336
24884 79906 88446 33261 67828 17784 01324 53673 42891 22469
93375 65955 08860 97245 02777 44747 32745 21289 20980 00216
04914 19065 08480 00636 70724 12258 23181 57957 77098 46395
22289 81040 57480 09376 23686 26264 03607 84072 37711 00183
97529 02210 05288 93911 02336 91695 03340 53957 34991 34603
03424 19139 69753 77971 94531 78328 45584 64642 05979 28671
76013 76291 91337 38979 84867 05862 59338 47996 16327 01573
62681 52207 92731 49707 80696 62886 18576 88344 56789 37075
54141 69249 76608 12170 07183 10082 97871 98810 16129 04139
67794 11759 23224 79790 89048 43452 61036 26822 20197 09919
00801 55201 00000

Link 80214

19256/14521/12137 kHz, 04-09, 1330/1340/1350 UTC

11166 80214 69523 04058 00049 00000 00000 00000 00000

19256/14521/12137 kHz, 11-09, 1330/1340/1350 UTC

11166 80214 76391 10019 00049 00000 00000 00000 00000

19256/14521/12137 kHz, 18-09, 1330/1340/1350 UTC

11166 80214 76952 18055 00049 00000 00000 00000 00000

19256/14521/12137 kHz, 25-09, 1330/1340/1350 UTC

11166 80214 61582 25036 00049 00000 00000 00000 00000

F06a

13947/17536/18945 kHz, 03-09/04-09, 0600/0615/0630 UTC	File 44758 (binary contents)
13947/17536/18945 kHz, 10-09/11-09, 0600/0615/0630 UTC	File 48459 (binary contents)
13947/17536/18945 kHz, 17-09/18-09, 0600/0615/0630 UTC	File 64460 (binary contents)
13947/17536/18945 kHz, 24-09/25-09, 0600/0615/0630 UTC	File 44161 (binary contents)

11452/12219/14983 kHz, 06-09, 0300/0315/0330 UTC	Not heard
25252/23163/20594 kHz, 06-09, 1600/1615/1630 UTC	Not heard
11452/12219/14983 kHz, 13-09, 0300/0315/0330 UTC	Not heard
25252/23163/20594 kHz, 13-09, 1600/1615/1630 UTC	File 44431 (binary contents)
11452/12219/14983 kHz, 20-09, 0300/0315/0330 UTC	File 44431 (binary contents)
25252/23163/20594 kHz, 20-09, 1600/1615/1630 UTC	File 44431 (binary contents)
11452/12219/14983 kHz, 27-09, 0300/0315/0330 UTC	File 48432 (binary contents)
25252/23163/20594 kHz, 27-09, 1600/1615/1630 UTC	File 48432 (binary contents)

13835/12204/11156 kHz, 26-09, 1900/1915/1930 UTC	File 04446 (binary contents)
13386/12091/11436 kHz, 27-09, 0600/0615/0630 UTC	File 04446 (binary contents)

13986/11076/9935 kHz, 18-09, 1800/1815/1830 UTC	File 04422 (375 bytes, binary contents)
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F07

16263 kHz, 02-09/04-09/11-09/16-09/19-09/23-09/25-09/30-09, 2000 UTC
15852 kHz, 02-09/04-09/11-09/16-09/19-09/23-09/25-09/30-09, 2010 UTC
14968 kHz, 02-09/04-09/11-09/16-09/19-09/23-09/25-09/30-09, 2020 UTC
14417 kHz, 02-09/04-09/11-09/16-09/19-09/23-09/25-09/30-09, 2030 UTC
13478 kHz, 02-09/04-09/11-09/16-09/19-09/23-09/25-09/30-09, 2040 UTC
12143 kHz, 02-09/04-09/11-09/16-09/19-09/23-09/25-09/30-09, 2050 UTC

16156 kHz, 04-09, 1300 UTC, FSK 75/500

UAL: MFA Moscow wkg UAG: Russian embassy Havana. (Havana not monitored)

11100 70103 92456 04118 04009
73852 78146 50126 86513 95647 26067 70669 25091 23604 19981
04959 90354 70069 08433 04679 60519 00128 61822 21796 70309
36781 17121 25919 66464 82268 03165 24477 77416 10165 19940
52925 33056 07983 70316 27157 95536 74944 67662 75307 87052
04614 67765 91141 25527 07087 98519 76210 04144 50413 85795
62968 75671 25949 98941 36027 27505 67317 64354 93749 58365
77675 20550 17359 92603 44966 13175 39755 93036 49846 53401
31227 58253 95980 88133 44246 15335 17380 55475 84530 43918
42486 23877 00565 92552 19676 38424 08763 73267 33883 22683
96467 45310 69017 09557 69966 23979 95872 99578 39714 75486
90215 70086 59948 83798 10729 83710 64897 00391 91513 69621
68739 12839 28824 75958 21537 93203 66730 16905 38304 12137
11399 62805 43410 29647 28661 46811 97503 98459 04589 86450
99139 40918 73725 43586 78306 85355 44697 71183 24029 72871
77864 20338 13247 70463 94716 05993 33148 51441 23691 54780
14140 29063 12106 83439 15669 54330 58890 81226 32038 13884
47809 94774 10454 88931 85860 38829 98446 61154 76532 81300
62889 76512 82619 76071 47778 02913 58267 41993 62972 42645
54950 11513 21073 85557 31061 97367 64646 13880 19798 50780
50951 94653 35044 09597 86386 20685 19920 59806 27826 85986
67700 58874 93037 06617 69782 94328 47370 22869 70392 76038
58899 43754 32713 85624 39218 19693 46134 31432 12059 54378
29294 82508 76933 91733 08616 80024 59982 38901 77014 49573
69218 11209 62474 62780 96347 10045 61166 21679 32371 69579
14819 64268 89129 33273 36996 14700 44002 46105 18006 26538
49936 73468 63098 92513 77992 82650 43657 19232 84599 47864
66067 90244 20705 64737 87940 65953 25004 85223 36398 93755
68442 08851 08088 26885 42175 91267 55628 75388 06165 55995
90168 37654 40620 20357 54742 85960 67445 71494 48116 04451
33906 53421 03815 03002 75681 51053 54001 55395 01503 82139
32916 35253 66559 33055 99551 48155 26863 99365 84252 83399
91759 17122 88929 33812 16763 95812 95571 57073 03923 88916
62752 76978 01885 62983 14806 48086 22859 51197 53368 32168
18656 02344 45972 59928 83007 61123 71377 76405 72331 40758
26324 93506 62149 73809 23407 98104 81331 52168 34745 89140
91366 92130 61136 42174 02831 85520 31399 24800 46256 22776
61565 11394 39585 98948 28630 70601 19387 38553 38541 24026
28030 00199 93108 99545 74012 46945 85533 27687 07606 93316
79231 54515 79033 64915 49653 69458 71348 31569 93769 71512
25207 99955 36930 22262 97726 76629 91766 59154 22608

16156 kHz, 11-09, 1300 UTC, FSK 75/500

UAL: MFA Moscow wkg UAG: Russian embassy Havana.

11100 70103 15948 11121 04009
15144 45860 19144 54693 56242 98750 88839 70695 80427 73270
92974 66940 28839 98040 64286 30224 26056 23963 72290 58203
85731 21133 51624 19841 06557 27422 88684 07350 25750 84648
46255 78084 22244 23292 30812 09807 86772 81676 32188 17770
01046 70560 90290 07053 93178 19083 68558 58598 61597 62986
38843 72358 84566 61066 07404 16032 57573 50780 36702 52780
25710 78956 42687 46407 03276 68533 72253 67401 97770 07276
90568 48304 80468 69398 32940 61826 70760 06040 00933 20161
26461 65517 07404 18921 57249 29312 00157 74143 03449 74703
18890 25804 47328 00013 65139 06262 49099 73370 89891 97092
24821 90967 28569 22736 08382 55708 38051 54391 64744 12217
15450 22615 46660 99121 03304 62036 12017 04569 10879 36645
44025 35898 06283 19084 41422 39404 59060 22382 70881 31148

37963 07560 98819 24731 93587 15564 44783 66979 80560 96943
23606 17487 98963 37726 68520 32927 59683 04916 52422 42099
03374 60066 49455 22633 27724 14348 04122 15285 02708 23565
00105 36778 78514 46545 45974 77108 15839 15352 19983 92260
93222 90740 41130 28282 71139 01321 58681 37624 17497 89833
77331 73725 24261 15001 60205 74739 69871 82383 76871 72368
07155 02670 88564 86732 81408 00854 87806 93204 08346 24723
34604 72165 66599 26102 56418 77597 84454 13290 04092 85467
25513 98122 80920 07835 02973 86104 87054 83611 77196 83040
46425 81931 16286 16617 08367 79044 24317 96349 41150 94688
66946 60363 59580 98869 49067 82409 53879 24993 24199 37586
12016 50273 40311 50184 52679 29375 51751 72095 11095 92206
51980 65234 44851 41814 06797 86390 51931 13313 92726 97964
18150 79788 70291 53025 36160 16110 46816 28109 63240 56587
08478 02225 10029 07419 26282 05476 77410 99858 65653 85754
83729 95042 54319 66941 49530 76416 88196 97037 31990 90695
79935 09690 26265 23298 79843 47518 75903 19187 23848 20707
59535 85064 88205 99282 46019 33846 55631 62521 35228 57358
22547 53925 26675 38201 02121 15198 83154 36705 02808 97666
81587 13917 87054 74578 68267 76571 39875 02718 60683 54964
01975 06773 63115 49670 47109 84899 88187 08057 08377 58907
01560 16510 83114 17513 31960 19328 71105 26107 13730 00205
25765 01449 54080 87259 23007 74747 42239 67527 77476 91560
42683 21866 60824 21941 39641 16213 01731 79280 25047 10119
72345 71279 47145 68513 90848 31486 61925 87627 94805 04832
54574 71006 65014 85617 23138 16572 04529 31376 41577 00645
02546 01046 44403 69880 37835 90903 00087 77061 01423

18726 kHz, 11-09, 1300 UTC, FSK 75/500. Havana was too weak to copy

16156 kHz, 18-09, 1300 UTC, FSK 75/500

UAL: MFA Moscow wkg UAG: Russian embassy Havana.

UAL UAL UAL followed by opchat in FSK CW and a message.

11100 70103 83156 18126 04009
13821 34896 10447 81174 35279 10971 54564 19623 12416 99149
98077 00955 91308 21888 88581 14777 53179 26182 40523 05671
57620 68474 03485 33337 37103 55914 12200 41442 34929 04888
23000 58584 03835 02788 66368 79833 07426 83927 70299 02273
91632 55566 34147 12975 18368 34959 57646 52870 78584 83389
54795 04921 26912 48099 07296 80052 05063 48080 37228 99277
46197 64640 03645 95446 77434 22697 52794 83065 62688 73732
76625 69619 53030 16341 59299 06834 36756 15316 16360 05321
06347 05207 56279 61032 84512 89293 19052 66978 76509 69892
71522 08626 40903 70968 64142 66436 95987 38950 78842 73963
04034 32719 22702 04953 00552 38690 47106 87892 60766 71929
97082 71433 20485 49240 20501 89129 93546 45169 91816 96931
53043 66847 30062 81875 68494 08626 15760 65389 16170 72430
36446 49682 04740 64779 15498 80623 83451 06390 03952 25571
25006 15335 39989 89574 00333 49657 05797 18399 87447 20403
36465 61797 81575 11002 60637 95478 98736 63929 77576 25202
89970 20590 00347 21440 08398 25370 19797 58045 96297 29780
69032 53353 84394 57629 93064 37174 20538 17186 53316 92091
69964 71231 21687 42519 54331 00978 43852 89951 21705 24756
76485 17836 64693 57437 28101 14519 28913 21512 58193 87693
78971 45762 14359 68786 14164 12474 12108 30723 51057 39120
87022 67517 15156 05456 73984 09105 08846 61957 93120 69871
47787 80547 47189 54313 82952 33547 60078 68261 50499 11785
11095 09108 16665 17800 44752 33478 09859 95088 60728 25776
57161 79314 13691 16053 67395 82438 77670 20624 27969 45686
54671 03879 07684 22307 32207 84720 82674 76055 19460 36074
27688 06333 16723 50889 39883 35921 97845 73100 87336 22259
10350 16950 99435 78187 22909 23134 41367 13105 74872 25209

39863 30472 07545 24676 52409 42600 81867 98205 97099 88661
12238 85423 85318 66863 71108 30701 24445 16715 44087 77388
82765 12333 40210 37923 33775 52717 87074 88260 22070 59942
65529 60054 18000 21187 63593 29027 53287 35556 54313 22978
54779 51626 27220 97841 18545 06646 28098 55269 91480 03334
86735 00137 52627 85218 37355 61437 11388 96447 61402 24994
64812 37001 07392 51417 81168 49262 67484 77761 01958 96865
15498 26311 79580 21774 36024 68921 92834 90510 99348 20382
07432 65490 61863 59204 73718 62389 96646 99297 78795 79483
83915 60959 95218 09895 16024 14618 93466 72694 96694 95768
10370 23782 39190 14540 90677 32490 93081 08319 43965 34852
54331 10892 84054 99462 38353 36514 43143 66880 20758

18726 kHz, 18-09, 1300 UTC, FSK 75/500

UAG: Russian embassy Havana wkg UAL: MFA Moscow.

UAG UAG UAG followed by opchat in FSK CW and a message.

11100 70103 76291 18126 04003
19010 86221 40309 78350 18928 60299 17803 74689 11669 12729
91074 34068 60673 53375 47704 60674 93303 26146 17754 32421
12185 84473 44921 25500 61728 42677 37104 35909 79516 51636
38530 08891 87242 72230 90669 12215 00882 44953 74095 14250
64791 79167 48493 52755 39426 10427 33001 05337 97352 99289
94072 97491 07252 70092 33040 09199 10595 13083 90577 65977
20691 98383 10248 25352 98771 75206 28308 94670 86828 54751
81988 41206 01868 00242 53403 80481 21278 72526 91294 53749
14002 04678 77804 30581 97198 04042 32445 97476 23074 05158
70468 18457 25578 22000 57811 78565 81659 72969 29822 46213
66747 77083 65933 15313 09166 44785 37481 13131 73160 11830
70862 84807 25223 89660 93203 90466 63411 30745 52744 75865
14337 32270 31107 02514 27517 26671 89656 48207 21784 32401
17124 13902 63428 63402 70691 97884 80765 20698 27718 23153
44817 14556 90296 28967 70798 90652 09839 62488 20087 58684
23857 31465 07370 46848 22142 03880 42656 30647 84530 65513
62834 09447 57438 71356 32475 29224 61340 51800 18558 74939
46414 59559 68804 80985 38501 68246 48323 33130 42590 58546
14234 60407 96013 52933 32972 40383 88529 84845 69958 66240
91494 13286 06310 49114 63300 18760 62302 54125 23267 41501
32248 93532 11187 47924 60490 25461 74692 36227 13204 31630
51651 17107 25673 72522 39760 30493 29755 43430 10542 84267
91198 79825 29920 25887 11527 85473 92559 82858 74138 81746
62172 32991 39352 01563 34961 90382 18058 76389 28399 18055
78663 89755 42525 03696 67040 95700 45952 55928 44139 25606
03764 17562 70965 31839 89492 89242 95610 41655 48378 16959
22024 19791 04070 93834 65201 63177 25977 65633 22498 76237
99461 50434 15732 00169 66031 08402 83782 94676 25761 22544
30363 95588 19089 76709 56657 96170 68184 00839 33501 29856
79230 00934 92811 40022 95284 93161 42937 81588 87788 28938
37619 81537 58035 21636 53255 44596 18301 50878 54158 98245
10667 25379 50474 01121 42726 30253 78486 63212 82380 69727
57948 51332 78902 41215 06168 78269 02455 01662 13514 99067
19259 12121 10039 62882 44585 71490 77892 93825 40776 75337
89238 99267 52465 60776 74333 29006 96197 23297 49479 33758
46629 16521 59517 96403 86493 70798 14569 34422 12533 91588
25699 96951 14565 23568 69188 04928 69890 91391 34112 07710
20211 53059 32909 54664 23262 26813 79614 05112 96336 77508
65471 25106 93889 73394 86583 44454 86415 49242 03308 72432
32779 36759 36072 95636 63197 48227 27311 06391 15043

UAL UAL UAL followed by operator chat and a message.

00877 13971 96219 44093 33408 60693 80303 20748 24142

UAG UAG UAG followed by operator chat and a message.

27/7/12 00:10 1 00070 00101 12100 00000 0.1070 70000 07070 11000

82681 75586 60293 84653 35237 80215 31263 71491 93717 15857
34500 07663 95685 90071 01695 94849 43654 17011 26392 90896
49492 88182 61965 16456 61349 95813 81984 26554 65280 99746
08494 20555 78773 65815 37620 88922 78353 72617 17223 20256
28460 24653 56292 66994 03781 32731 70764 93272 22224 47609
95458 53328 30735 57788 16803 73917 11119 87409 06064 39175
98078 55182 57738 01344 26648 80285 62815 65837 51198 46181
71587 24036 03226 58274 25702 32291 80089 56356 64133 60551
81891 67774 32773 59053 38697 12260 52321 16518 95265 94351
24159 08293 45496 44357 78907 57868 33762 93790 97341 60208
65331 96206 58360 40339 93051 29403 93686 45633 72500 39887
54005 95209 02777 77582 16206 34914 95094 97679 86426 71293
36483 67603 78589 83018 40577 69995 73111 33182 02888 57684
85474 30910 02625 69557 99353 15737 18287 77285 43972 63160
49215 61828 20398 34832 60289 05667 06436 21817 91956 11692
94839 54346 02776 84692 44490 76522 36678 36380 49274 09401
32109 99884 54301 50881 15265 64657 74194 85860 44593 67728
93100 05075 98745 02245 51139 56067 25187 29228 46958 74730
91623 03502 11093 70838 07463 49708 29809 66038 07469 49360
24131 07705 14821 24872 13721 07120 25749 31495 20322 75404
82944 93104 90424 55641 29918 42764 41873 74625 63515 54026
64079 62685 26752 73880 26532 14999 09175 93301 75304 928+3
46932 16343 22230 88335 39732 13688 56447 00689 26887 71621
32987 98126 89626 72344 18109 63188 72700 41079 96053 45284
36639 24387 66916 68773 00305 75157 90314 70113 11853 72688
54547 62355 69361 46302 75933 50597 90863 23938 58003 46712
81800 38148 65254 56847 66240 50946 91131 40106 74053 58442
24948 61865 01237 61194 47401 90152 85562 11228 09411 08534
64754 71644 73923 43936 09365 49773 25413 32856 47549 89790
76728 74376 23926 35751 28000 43447 59696 00967 57285

M42b

19101 kHz, 01-09, 0810 UTC, FSK 50/500 + CW

Opchat F5KA F5KA F5KA DE SX3H SX3H QSA2 QRU? ... ZZC ZVP ...

464646 464646 464646 464646 ...

363 100 1 0800 3189=

363 100 1 0800 3189=

363 100 1 0800 3189=

93713 93431 57762 76032 00497 80209 42215 72815 18584 95099

49181 87337 27170 64268 78846 33255 30640 75728 75784 75891

88973 82809 35109 29692 68957 32433 72479 75377 23245 36407

86672 52696 26065 15242 96530 07877 65545 99780 50656 46160

56719 93880 76852 36104 38693 23250 41814 93703 07182 33963

=50=

59320 76612 85569 97287 70780 11329 98022 01862 24872 78219

98188 20152 06209 40039 57335 82505 61380 30247 44496 53858

70635 11983 45493 62586 25284 03791 68123 95685 95044 52901

75603 00791 87211 52823 43869 42234 31113 53542 94217 38220

58654 59875 52863 13687 17330 36950 12877 53632 38517 82051

=100=

CFM NIL QRU?

SK

11470 kHz, 01-09, 0559 UT, FSK 50/500

RGY2: Russian PtP link id 380741. Start of Mon-Fri schedule with Control Station RTK2 on 17475 kHz

17475 kHz, 01-09, 0556 UTC, FSK 50/500

RTK2: Russian PtP Link Control Station id 121742. Reversals

17475 kHz, 01-09, 0621 UTC, FSK 50/500

RTK2: Russian PtP Link Control Station id 121742. Sends qtc to link partner RGY2, untrained operator or stressful conditions, a lot (!) of error corrections (EEEEEEEE), only parts of qtc possible to read at this end; ".... RADIOGRAM EEEEEEEE AMMY EEEEEEEE ...", "... TELEGRAM UPOEDDSW EEEEEEEE ..." ends with "RPT AL K", the operator at RGY2 does his best on 11470 kHz at 0640z

13870 kHz, 03-09, 0649 UTC, FSK 50/500

RVQ4: Russian PtP link id 121745. Callup to link partner RWB3 id 350741 on 11065 kHz "121745 RWB3 DE RVQ4 QRK 0 ZOR GD K 121745"

13985 kHz, 03-09, 0655 UTC, FSK 50/500

RRQ6: Russian PtP link id 136741. Callup to 121744: RNM6 DE RRQ6 GD QRK0 QRK?

14780 kHz, 03-09, 0633 UTC, FSK CW

RWI2: Russian PtP link id 121743 ongoing traffic with RHK6

16180 kHz, 03-09, 0701 UTC, FSK 50/500

RNM6: Russian PtP link id 121744. Reply to call from link partner RRQ6 on 13985 kHz: "QRK0 ZOR GD" (receives "OK ZOR K" from RRQ6)

19101 kHz, 03-09, 0800 UTC, FSK 50/500

Opchat 5NT8 DE OJ8K QTC1 ZCZ ZVP K. Station operating with UTC and not Moscow time.

464646 464646 464646 464646 464646 464646 464646 464646
365 100 3 0800 9864=
365 100 3 0800 9864=
93421 42938 13625 92883 92939 81826 73938 29233 14677 18128
43248 24928 69472 20365 67047 98720 67383 22934 79537 97934
41366 27600 66716 25119 70036 94389 95133 95157 13304 22235
12735 33273 18023 43158 86146 86001 53326 16155 56351 99406
38262 06006 17172 80095 56104 49599 24062 29931 56993 17318
=50=
08720 16287 30139 48853 92981 51004 11485 71199 14248 10815
10801 97408 91951 42473 38873 68369 17299 38770 58366 62009
44021 50206 31352 40110 38896 65876 01025 37559 31186 32764
72471 14693 29641 10087 01839 58145 71920 05684 91657 98726
52937 80524 21715 83042 54531 22224 87802 58332 95479 95229
=100=
-0807

19101 kHz, 05-05, 0805 UTC, FSK 50/500

PR5N: Russian diplo/intel. Opchat FP17 DE PR5N PR5 QSA2 QRU OK ... later confirms msg from FP17: R763 T8T8 K.

464646 464646 464646 464646 464646 464646 464646
367 100 5 0750 3851=
39258 41521 36368 02210 12336 17591
39258 41521 36368 02210 12336 17591
39258 41521 36368 02210 12336 17591 64289 23297 42371 49582
71414 24495 75026 16146 10 80 86357 09349 93697 20454
06202 94472 66093 99235 12101 84340 84825 24181 36965 45778
20050 36770 571 21739 98504 25092 84411 76745 83432 67332
44017 73275 67100 27703 28673 05230 47740 41460 12024 04496
=50=
92481 98612 85152 49385 69963 68728 41009 32893 27155 39 9
24032 391 97519 44145 78484 91541 56651 09312 62113
49399 98244 31219 42075 43857 15266 15532 19540 40467
00205 13504 62290 80656 07753 72348 26966 68938 60289 38116
93560 86230 37843 60356 :Y13 71204 00958 05420 67761 02460
=100=
-0811

CFM NIL QRU? K

5350 kHz, 09-09, 0756 UTC, FSK 50/500

RAU2: Russian PtP link 190741 linked with RNI2

13922 kHz, 11-09, 0802 UTC, FSK 50/500

Russian diplo/intel. Opchat and callup, several attempts to link with partner at 14456, prob no success, as they still worked on this at 0820utc, then F1B passing of a message with header 373 100 11 0800 8712 =. QSX 14456 kHz

6791 kHz, 11-09, 0627 UTC, FSK 50/500

RBZDQHKCAAJ ... RBZDQJKCAUJ ... etc repeated. QSX on 8047 kHz

15940 kHz, 11-09, 0605 UTC, FSK 50/500

RPD2: Russian PtP link 390741. Callup to 121741 into F1B 50/500 3rd shift; 390741 and "GOOD MORNING" msg to REA9, and into usual revs.

5800 kHz, 12-09, 0719 UTC, FSK 50/500

RYF2: Russian PtP link 219741. OOK numeric call up to 121747 (RWI on 8115 kHz)

8115 kHz, 12-09, 0727 UTC, FSK 50/500

RWI: Russian PtP link 121747. Revs after link setup with RYF2 on 5800 kHz

13922 kHz, 12-09, 0758 UTC, CW

Russian diplo/intel. Setting up daily link with 4XN6, opchat. Nil activity on either 14456 or 19101 kHz

11065 kHz, 12-09, 0844 UTC, FSK 50/500 3rd shift

RWB: Russian PtP link 350741. Closing of daily sched with RVQ4 on 13870 kHz: 350741 RVQ4 DE RWB3 QRK 0 QRK ? ... RVQ4 DE RWB3 OK GB 73 SK

13870 kHz, 12-09, 0844 UTC, FSK 50/500 3rd shift

RVQ4: Russian PtP link 121745. Closing of daily sched with RWB on 11065 kHz: 121745 RWB DE RVQ4 QRK? ... RWB DE RVQ4 QRK 0 ZNN GB SK

11080 kHz, 12-09, 0859 UTC, FSK 50/500 3rd shift

RDI: Russian PtP link 340741. Revs and closure of link with RTK on 14485 kHz: RTK DE RDI QRK? ... RTK DE RDI OK ZNN GB 73 SK

14485 kHz, 12-09, 0859 UTC, FSK 50/500 3rd shift

RTK: Russian PtP link 121746. Revs and later closure of link with RDI 340741 on 11080 kHz

13922 kHz, 13-09, 0804 UTC, CW

PVS9: Russian diplo/intel. Very weak call up to DVY7 and opchat, sudden break in by DVY7 on 19101 kHz, tells PVS9 that he is nearly nil readable and asks PVS9 to "QSY 70961". PVS9 then not found/heard on any known frequencies, rest of daily link exchange of qtc on 19101 kHz

19101 kHz, 13-09, 0804 UTC, CW + FSK 50/500

DVY7: Russian diplo/intel. Opchat PVS9 DE DVY7 QSA2 QTC1.

464646 464646 464646 464646 464646 464646 464646 464646 464646

375 100 13 0800 1945=

375 100 13 0800 1945=

375 100 13 0800 1945=

375 100 13 0800 1945=

375 100 13 0800 1945=

375 100 13 0800 1945=

375 100 13 0800 1945=

31350 69155 10077 18982 42448 81741 59504 77494 12449 15903

17751 53420 69930 42701 13487 59250 76944 21966 94517 57047

38096 85720 92888 20027 63134 19113 04316 91175 36715 64788

46189 89890 40693 49658 10612 37817 67395 27437 69958 29907

91762 99192 85017 56429 30845 88708 49015 43562 76098 97439

=50=

59155 73443 40341 01679 15516 30395 44669 25581 02159 46233

14067 72921 67835 97267 37962 00023 43942 63458 72557 27643

39045 55559 11508 79116 90066 70534 88313 06063 99561 33066

98796 57702 38191 69767 37884 03921 61153 80072 42273 43311

13922 kHz, 26-09, 0751 UTC, CW

WSJ8: Russian diplo/intel wkg K9M1 on 14456 kHz

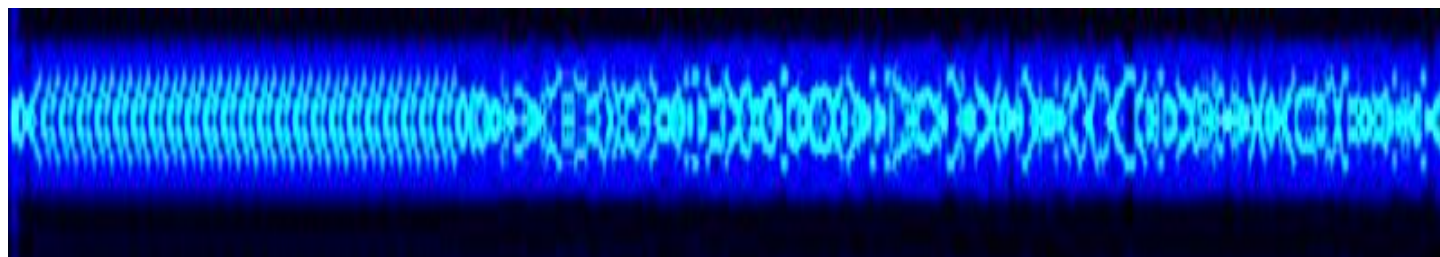
13922 kHz, 28-09, 0751 UTC, CW

3LSG: Russian diplo/intel wkg V46B on 14456 kHz. Sloppy handkeyed morse: XVT6B DE Z?SG ... XSET6B DE Z?SG ... VVV, followed by proper callup X46B X46B X46B DE 3LSG 3LSG. 3LSG says: OK QSW 87665 K. 3LSG replies: QTC 1 ZZN ZVP K on 13922 kHz. X46B corrects and resumes traffic in CW and FSK 50/500) on 14456 kHz

13922 kHz, 30-09, 0757 UTC, CW

6P7D: Russian intel/diplo. VVV K3AG K3AG K3AG DE 6P7D 6P7D K. OK ZCZ ZVP K. BK BK QRV. BK BK QRV K. OK QSW 78746 K

P03



P03k

P07

9311 kHz, 03-09/07-09/10-09/14-09/17-09/21-09/24-09/28-09, 1400 UTC

9071 kHz, 03-09/07-09/10-09/14-09/17-09/21-09/24-09/28-09, 1410 UTC

8189 kHz, 03-09/07-09/10-09/14-09/17-09/21-09/24-09/28-09, 1420 UTC

7894 kHz, 03-09/07-09/10-09/14-09/17-09/21-09/24-09/28-09, 1430 UTC

7488 kHz, 03-09/07-09/10-09/14-09/17-09/21-09/24-09/28-09, 1440 UTC

6783 kHz, 03-09/07-09/10-09/14-09/17-09/21-09/24-09/28-09, 1450 UTC

Q26 - Chinese military

17132 kHz, 22-09, 1418 UTC, 4+4 QPSK 75/1000 LSB

8865 8865 8865 DE ZK69 ZK69 ZK69

8865 8865 8865 DE ZK69 ZK69 ZK69

8865 8865 8865 DE ZK69 ZK69 ZK69

XYXYXYXYXY CY GD QSL 2220 BOZ NIL SK XRPEC

DAAR DAAR DAAR DE T8K8 T8K8 T8K8

DAAR DAAR DAAR DE T8K8 T8K8 T8K8

DAAR DAAR DAAR DE T8K8 T8K8 T8K8

XYXYXYXYXYXY GD BOZ NIL SK /

8865 8865 8865 DE ZK69 ZK69 ZK69

8865 8865 8865 DE ZK69 ZK69 ZK69

8865 8865 8865 DE ZK69 ZK69 ZK69

XYXYXYXYXY CY GD QSL 2220 BOZ NIL SK XRPPC

DAAR DAAR DAAR DE T8K8 T8K8 T8K8

DAAR DAAR DAAR DE T8K8 T8K8 T8K8

DAAR DAAR DAAR DE T8K8 T8K8 T8K8

XYXYXYXYXYXY GD BOZ NIL /

8865 8865 8865 DE ZK69 ZK69 ZK69

8865 8865 8865 DE ZK69 ZK69 ZK69

8865 8865 8865 DE ZK69 ZK69 ZK69

XYXYXYXYXY CY GD QSL 2220 BOZ NIL SK XRPEC

DAAR DAAR DAAR DE T8K8 T8K8 T8K8

DAAR DAAR DAAR DE T8K8 T8K8 T8K8

DAAR DAAR DAAR DE T8K8 T8K8 T8K8

XYXYXYXYXYXY IKGEANIL SK /

12137/11137/10237 kHz, 03-09/05-09, 1210/1230/1250 UTC

112 112 112 1 112 112 112 1 112 112 112 1

02401 00788 83183 30354 97871 04894 82923 73605 53511 06690
90078 99614 08821 62260 25418 29843 50552 18314 99603 91253
37644 41199 86506 26216 99234 95935 94853 50692 60252 24681
65375 52824 67014 47384 19647 07235 47872 81502 72160 34342
89190 08332 04513 41611 06540 97142 34096 88794 88460 77305
93377 56810 82387 45732 38134 03543 35907 13724 55276 79356
51647 51380 09351 05663 97779 96821 37012 33576 24815 49584
17243 15655 48265 19843 45607 23732 92114 22184 55039 98285
38594 52991 24842 91305 06596 71396 67036 80786 34199 94436
75563 29955 46438 67061 83178 24237 38116 95107 69796 34812
79341 57428 65323 85862 73180 68537 41887 06303 63404 46646
79086 15118 35860 94725 35955 81587 68010 98649 52718 36101
48242 21946 89478 68445 40294 32365 17230 31597 70936 97853
36164 89260 96941 85891 20850 16761 41440 06880 11432 81512
56365 81739 80639 41672 47224 49218 34012 33908 99533 15747
58118 09559 05471 39119 87668 80532 18199 82672 90572 92933
00086 49420 20333 86215 27267 70283 34258 32489 52292 90154
59285 50588 63119 35620 24081 66748 47556 79811 00318 52862
77824 26889 04977 05800 91452 20092 82719 24998 80526 00388
54556 72153 65198 50759 26457 53950 88570 41440 02780 96836
89497 13771 83770 04587 57925 89279 15373 99218 94389 92773
95517 18027 47127 14383 73656 52747 70349 38658 87651 85098
60847 90259 41581 59235 15660 26455 38646 46341 02112 05412
40362 09442 46860 92907 88252 37053 46383 28704 49228 59269
33599 89195 09242 35005 94469 70540 53814 37303 32731 22438
50618 08652 31904 20559 54330 56926 25723 21915 43916 31779
69310 93253 99474 95119 72871 26847 25262 21126 52853 50511
75259 44206 80603 45713 88863 16937 09985 14499 43917 67197
79620 61895 59429 08316 20402 95804 36067 50974 96900 45800
32904 15199 43559 27412 67415 12123 23281 78150 27641 29868
43661 31061 30113 62956 27808 80549 84892 57730 18172 99356
22740 39048 57966 29684 88797 11132 80089 14069 31234 11228
67771 95511 69914 76212 95790 97722 20636 06181 71284 13070
41098 88372 08451 81182 91078 07975 09176 31797 28130 66123
48522 08200 65445 66796 49537 82882 60070 86027 70848 59402
99252 65562 23958 84575 81002 06823 85543 52616 07006 75199
69874 11195 09425 79155 40381 14033 29560 88161 67652 04501
98462 00363 05382 43327 16094 68042 13973 94250 05730 63698
16433 32054 98135 72137 40341 44777 87469 79024 04161 26526
56774 49870 23048 34718 45190 15868 39036 87863 41704 18324
50809 24239 57074 69654 45978 56196 88445 43371 13306 13884
96667 33750 92938 95917 63006 13923 07969 12323 72015 34004
64877 45431 64374 37840 86613 65842 84796 78608 70009 07822
72810 53679 46794 78481 04481 66730 24075 54230 16071 18217
65598 94115 16594 76556 32567 29391 75215 01276 70655 77277
28243 54305 69091 11591 36680 85055 95428 91107 56324 46462
02094 90898 30046 81086 42788 95963 66229 62526 72768 88411
52461 75775 45703 91175 27839 90610 37739 93732 91280 44366
58713 14410 69997 93347 87775 69125 11698 28713 44926 76062
81246 17616 61732 83078 36925 96776 58303 12075 53403 05517
88239 00390 06839 36179 60037 83503 04261 14918 04937 92714
20851 24224 66338 45819 05977 55149 66952 18251 95556 07686
84914 49762 13854 94853 04975 64182 61288 71118 52721 74630
23242 17037 32410 13703 60220 83985 43061 38262 10412 08212
13095 09281 97462 78428 17472 58216 74819 66982 50003 77221
37376 10002 40126 47059 35016 33395 56394 60091 35044 86419
11866 16872 69423 12767 80893 72509 56529 26629 43931 21187
69777 63328 41240 35861 17301 41477 81596 32465 48164 38305

43349 58267 32507 76565 61884 83519 38119 16570 24403 86624
65484 00416 39702 23123 76766 77918 39936 78300 36185 42569
56170 18605 16471 46469 18549 48754 98593 07889 89120 76896
22883 50756 10415 86429 73577 91780 44669 06368 67640 28656
76351 52982 79096 20178 79503 38006 65015 26596 88137 56578
95046 44177 07719 92015 35143 32806 33449 45096 33252 85594
95260 33551 09937 59700 04437 42532 73881 10055 90047 61365
36269 57862 49280 90578 65396 20520 62039 35438 58117 25249
27544 84782 73102 20640 20649 44569 38876 25136 55314 54317
90544 88267 47791 75515 80745 02791 42590 66557 37358 16760
85450 28293 33700 38919 92375 70711 87829 42279 04782 34644
36862 75844 39640 11900 41883 11165 67070 43572 78546 61255
28681 85759 06966 81167 18357 32183 70729 24263 08989 13994
58276 75809 56619 43863 69877 40545 56648 81542 96358 56571
06354 58143 88940 31287 25777 49497 20654 94353 84834 22599
21035 68761 88707 72164 19716 00771 75040 22376 47114 32964
87582 43083 38104 29551 43069 67427 38998 10217 35301 54663
88105 97743 11599 04920 75426 00700 55853 56829 34392 90314
19129 87358 81326 27165 02394 25757 81761 92384 37309 68108
60338 71074 73577 05497 27804 88750 92885 36128 49026 30944
09491 29115 37712 86853 60953 60625 51897 48155 90819 46623
04755

12137/11137/10237 kHz, 10-09, 1210/1230/1250 UTC

112 112 112 000
08197 00001 00000 35271

12137/11137/10237 kHz, 12-09, 1210/1230/1250 UTC

112 112 112 000
09727 00001 00000 40263

12137/11137/10237 kHz, 17-09, 1210/1230/1250 UTC

112 112 112 000
04966 00001 00000 40662

12137/11137/10237 kHz, 19-09, 1210/1230/1250 UTC

112 112 112 000
07341 00001 00000 33263

12137/11137/10237 kHz, 24-09/26-09, 1210/1230/1250 UTC

112 112 112 1 112 112 112 1 112 112 112 1
04159 00518 26704 56099 21199 38106 32498 94259 93589 72944
85582 71730 90116 37875 69210 61163 55025 53471 88461 21819
70258 57874 98309 16289 89285 53317 69469 92720 14331 83263
71670 85408 72657 53414 84108 58961 27556 50886 43514 01719
30543 82338 47282 41261 09498 19504 57538 35730 81850 65665
20842 73051 77148 65944 84363 82230 14681 84021 82352 96243
25523 22660 61754 56732 00863 56776 44669 70180 17701 91980
80266 67269 74482 87914 62526 24263 41472 33653 64160 25671
53124 02721 56694 57909 29995 54530 89343 49082 96157 90054
21537 13139 65063 97445 68268 53757 84763 80942 41130 78144
58997 00349 23161 24660 35234 62078 86196 59845 44428 55022
72599 82302 86808 41406 47420 50760 95754 61978 86936 81377
96042 37702 55671 12281 14348 07490 67498 01687 56046 04717
29695 07118 21898 11638 71385 70137 53786 43140 75035 02078
89926 73511 77220 60018 32045 02718 90587 40014 47414 69248
83181 32039 15406 57021 57198 35886 74675 38397 99513 48996
77147 80233 86543 57543 56872 26779 26014 87930 38499 94186
44483 55602 19976 78460 58400 92911 76048 64568 72562 98250
90511 41349 96699 97682 82071 16699 93111 31931 96194 27676
92801 37663 17289 67748 25048 85072 95813 46080 83033 51728
71489 61140 67268 62032 65018 47278 17110 77913 43559 32849
52351 91466 94072 57523 50868 88823 72834 86916 96776 62943

33181 95394 99500 43617 45699 41076 10512 73915 82868 30533
82693 10310 40930 08483 13197 67083 48243 41461 01213 43590
61138 83294 32488 82810 80267 59785 82099 44085 01758 08653
91792 36276 11681 98713 98519 74008 22726 06863 26864 51025
35288 99710 88169 75771 60020 20109 48940 26100 28372 90542
67414 68886 84430 79045 13683 54208 17864 94786 07374 93393
21062 70314 66926 68448 34024 65406 99302 56531 66940 38654
48064 97018 18409 78629 90377 46531 49383 23724 96709 62507
99027 55839 80445 91734 66835 99511 86735 44380 36091 70225
64266 66352 61743 55640 60253 28402 30842 14110 05542 66872
42733 83835 05986 78548 20860 90478 69837 26388 63622 11956
52489 17101 97467 81721 19666 64904 91694 39328 44941 56539
33504 84237 18030 01507 96029 76931 28822 68701 03807 71074
13410 35973 79868 12052 05875 55471 23718 72614 03930 91086
51922 57243 78992 35445 81140 89703 16457 94683 42784 57910
58960 38126 88211 66621 30609 60461 86041 86236 60980 67602
93326 79321 69667 49022 39536 94303 07463 87860 50427 47919
02327 72704 22699 79297 36548 89484 28075 72658 07311 88706
19505 47228 60864 74609 90562 15238 40314 41872 14964 20666
86958 87870 08885 91078 24299 72073 45155 13181 46327 38101
61735 73743 98156 21360 25571 41281 14251 01638 48210 87958
64382 54805 38867 86829 88249 93063 05390 90972 38234 28659
90557 92273 52243 01292 27752 45864 15034 84739 82478 10977
22416 99599 77316 57624 54110 16592 43212 25663 10646 54733
21412 18840 53873 97048 80686 89172 98343 99830 59863 23637
38968 64648 34414 38073 57140 47559 78931 73489 94580 67330
06758 17190 73654 81783 31410 79429 81876 99274 34331 01760
21600 90960 78614 35462 41735 12240 12551 26456 89175 12449
45955 61469 76925 62003 75782 74138 60840 92859 14032 32399
64754 05875 66019 00934 54403 15384 95825 89830 13175 56012
03433

XPA2

12152/13552/13952 kHz, 0700/0720/0740 UTC

12152/13552/13952 kHz, 01-09/10-09, 0700/0720/0740 UTC

03611 00001 00000 34654

12152/13552/13952 kHz, 03-09/10-09, 0700/0720/0740 UTC

06694 00001 00000 36267

12152/13552/13952 kHz, 08-09/10-09/15-09/17-09, 0700/0720/0740 UTC

00177 00127 49206 70835 05423 49920 76976 85878 18576 47362
91476 12229 50977 20113 15662 18280 25099 07526 86687 15622
88690 20237 32039 75650 32094 17908 39588 66383 13932 42126
24862 14243 08460 98651 85820 25462 10567 04544 64943 67353
55269 08468 67804 90327 13398 50337 50109 15359 00447 55759
53624 91305 29519 54783 81291 86883 48450 56523 71470 90586
49754 97606 92141 68489 80405 03261 25754 74115 54207 08299
24034 90142 52038 07115 99449 26403 79703 98368 64403 58565
93653 45240 17963 38082 35472 03124 94416 68160 68976 18016
03272 78949 04644 73830 03301 87879 04388 19715 01847 95868
73192 81413 14386 46204 35166 25896 98415 84467 38667 17608
58959 50877 02354 79780 09034 64644 43209 71566 43703 03622
43420 00091 52849 64101 37629 44268 38414 84758 64696 73103

12152/13552/13952 kHz, 22-09/24-09/29-09, 0700/0720/0740 UTC

00423 00565 15855 45325 74894 51057 88708 56748 90107 96011
86997 75654 45698 56964 39676 34462 60804 47064 07159 49174
56375 76438 89781 59355 14763 92716 06743 74526 56303 08367
21585 50338 66901 05025 02922 40662 59772 66160 95807 09771

08412 00343 14675 96441 67166 41079 19683 52375 02270 74623
47921 58589 34356 21864 37775 83444 83091 94795 12766 21078
03493 32005 00111 13011 98940 99653 43461 90820 19284 28135
19733 25559 01627 40097 65975 73198 92558 32184 84936 19245
96183 10390 66347 15232 77226 05162 40504 73199 47528 21415
54435 06473 07572 07731 43256 90861 65403 97238 84354 00132
36490 43000 81056 34864 07070 47810 17368 27766 92310 67868
76156 78670 24431 72904 26373 14135 94935 62670 76185 51822
56916 73625 04554 84038 47534 14497 99134 21362 79563 50159
76051 68196 30803 28478 33090 82077 45043 03857 30373 17767
00588 01468 30907 07552 30611 13422 20100 64646 14593 85463
30779 95976 45201 43106 74361 03515 46541 99750 57132 84897
34420 38465 34405 97938 64497 24385 02505 16825 53683 89366
16171 61438 74379 19043 58017 08541 01810 29639 25826 69224
32743 55223 47681 09860 53266 80565 60158 41502 26553 15252
11320 45759 35394 16141 02631 72672 83885 27623 22099 93229
98653 15282 56112 47637 81998 76119 16561 62667 84258 75511
79209 66259 54862 24565 98439 03063 91638 23787 37082 62718
73041 45643 24605 62355 77775 58157 24048 48647 39832 96850
71745 51842 39496 21669 19139 42567 91760 63505 77612 53555
30933 97332 65498 18253 34263 57856 69444 22694 68567 44925
72755 00515 96706 04141 34999 36203 52060 19125 78312 68337
33695 67448 70163 05902 03820 45268 48296 00204 68672 06114
56496 93984 00422 00907 20883 95775 71956 64130 50702 05133
52468 29417 59787 28200 78532 73029 02447 79659 67596 97262
07234 25779 40398 72298 02734 65147 66034 64227 31746 50557
34654 61428 02608 25612 87222 78283 50173 78223 78641 85469
04138 60817 42186 84967 20317 54446 72275 62274 37119 24207
59651 97730 45814 69494 26746 73317 37484 99813 22990 16754
06668 82275 76750 27749 25112 68081 05965 63861 26463 70819
60822 91996 06507 34381 56545 99234 05863 32708 28860 16344
25278 72908 48388 49109 56214 22016 17093 13697 29170 69603
41241 39451 76759 40463 20709 27518 57622 18298 47013 01836
23825 20803 94239 66982 82374 96384 70126 33882 16965 02324
58441 50370 29377 99590 44417 65504 56768 99030 95943 50509
80131 52147 81768 44018 60448 24632 10023 22637 02705 56264
71317 59008 19053 18493 45948 20961 40105 82772 68502 54353
06042 25558 23916 64460 83493 88765 99852 17477 85497 64705
79815 76720 01684 46720 46251 33228 14191 30670 02782 71499
90104 73253 84325 19029 62340 56425 45442 99478 92267 63354
94884 53816 17654 81513 92291 37752 28481 14258 58858 19357
20668 81649 74630 46132 67460 51154 03636 16150 00081 12864
40642 97397 54295 87871 95061 51574 92656 26178 55753 83093
28316 58942 73868 36936 90801 09680 41273 19466 66065 44545
22672 80830 86895 96411 59415 91422 04319 22328 42273 88253
10088 44106 18802 62075 60369 73706 56805 36464 87421 41513
74930 02559 83929 69683 59351 25098 40856 05142 82134 33684
63315 33876 31503 93200 65610 38817 85041 26677 00545 37118
40969 11182 21741 85969 09609 55057 03064 94811 90148 86342
29979 60800 82971 85304 18131 54296 04121 67028 34724 97395
92929 48531 11160 25892 32896 84086 91197 72259 51392 07752
28386 24158 80999 65516 83489 51600 58843 43110 24481 76427
71221 68623 02961 45404 40504 77000 28884 54550

14373/13373/11573 kHz, 1500/1520/1540 UTC

14373/13373/11573 kHz, 01-09, 1500/1520/1540 UTC

43304 00001 00000 34544

14373/13373/11573 kHz, 06-09, 1500/1520/1540 UTC

06482 00001 00000 34266

14373/13373/11573 kHz, 08-09/13-09, 1500/1520/1540 UTC

09937 00122 00650 50480 95117 70781 70534 41986 21048 08087
98106 64664 83881 86506 14800 16097 63337 17667 57052 94286
10786 76816 80891 86984 80364 12730 38687 20662 25889 47317
12345 47975 38767 76842 43540 54200 19010 18462 89680 39211
24877 41893 73849 23567 91621 86552 16705 13256 40546 29042
46426 96490 13677 28698 09879 57391 08587 79909 04679 43203
90319 91399 51212 69695 94368 00445 66830 67771 30151 27267
77173 15638 85933 90909 13932 56368 60857 13553 44004 88643
91010 82880 44324 92715 17120 45041 42865 32713 35041 26942
33864 27851 31467 19957 07407 25089 15984 17616 09841 03997
95996 49348 26122 75924 56469 10081 22890 73313 02903 06680
54091 05635 40175 01444 98527 66488 63504 90921 65492 81719
44829 63350 62734 55078 70254

14373/13373/11573 kHz, 15-09, 1500/1520/1540 UTC

09344 00001 00000 34665

14373/13373/11573 kHz, 20-09, 1500/1520/1540 UTC

01598 00001 00000 37662

14373/13373/11573 kHz, 22-09/27-09, 1500/1520/1540 UTC

00787 00159 70844 64566 95491 65934 33761 85210 20923 77124
55601 88156 57000 66068 20632 50644 76691 27254 59012 40071
82325 49467 46380 41869 87631 14414 04607 21230 86685 50708
09071 40169 62678 32694 88653 51906 46593 78968 69182 15390
59691 30606 21894 13311 55058 08405 16890 26727 02682 29195
59915 13902 79126 26236 64124 14948 99903 40752 62723 58961
68668 16382 63096 56051 78371 61193 01387 94103 23436 38997
99537 35970 75159 23548 76187 38702 56650 88183 65106 24974
07337 90263 83391 64879 84071 17447 40813 41899 30380 18245
06236 46227 65414 69768 21696 03314 23496 85697 40433 85612
16787 08781 98498 00844 90708 93436 61922 20714 37758 93558
37873 17073 59685 00703 67806 62382 60201 72891 74254 86462
15171 62723 66122 52875 71404 57104 34918 08564 66748 47181
58159 67286 10907 96596 75487 73432 63468 83820 92032 40404
95618 38076 85126 51625 38107 24719 95954 89771 97740 96902
96059 22062 52933 84452 19164 45547 68478 71073 91111 85321
82639 06707

14373/13373/11573 kHz, 29-09, 1500/1520/1540 UTC

02111 00001 00000 32253

13431/12131/11431 kHz9, 1100/1120/1140 UTC
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13431/12131/11431 kHz, 02-09/05-09, 1100/1120/1140 UTC

06790 00669 80457 19709 40226 74052 33386 09323 09722 13558
45702 40657 69474 14645 83532 82124 70207 42474 97009 96499
23505 88177 64100 14660 42930 21871 02305 55194 24541 72022
84038 48591 83046 65978 54012 08942 85385 82865 54600 66917
00313 56134 98645 28561 20632 55821 52440 86695 96953 63821
77089 15317 56883 75417 04665 12207 97126 28196 99588 64557
81603 93575 26975 82644 20550 49599 63574 57791 31153 10634
45621 54588 97635 52375 70925 58835 02836 36243 80084 04685
34817 10897 36335 81508 78031 75386 40645 02447 80229 55708
35903 06478 82579 17135 55087 48806 53789 28503 79394 96585
38446 32436 30018 54276 27819 65039 01639 39247 38909 62014
80097 47537 68189 44152 23079 30866 36435 86188 42003 52072
82490 51409 63256 96593 39239 84375 45440 47643 93445 35375
77129 49921 94919 30598 04330 78350 02355 16700 98930 47430
10236 11452 77274 22846 85191 20467 08505 57572 56261 04313
14390 92516 53553 44819 95557 02016 71554 43629 41070 35335
74919 35069 77013 74549 28113 85614 97523 48902 77490 96590

33680 68802 97631 09386 23917 88779 12440 83719 65214 33271
83350 33244 25192 76834 20748 10096 52586 42936 21614 03796
10426 83427 12131 91063 05885 09365 71936 26773 47942 96789
81793 94504 92915 61733 44686 71052 85002 66277 00344 35278
87973 23904 28035 37436 83163 56038 24997 40185 20482 99284
86052 75094 36539 33580 44247 57830 58563 47926 64063 94175
38546 95781 42296 27265 20276 01745 08482 53090 70161 94675
08960 09769 67503 72915 14724 82194 11136 90046 65791 88438
03538 96818 65300 50375 25045 14912 35240 35621 48234 58945
90266 96474 18090 61468 67659 29957 34696 80239 60011 15071
06193 67246 60301 06775 71256 54299 89660 67415 18795 25685
89030 19638 87028 56453 69751 13230 69421 00294 80980 49172
34278 37274 81890 81461 15607 47611 60216 69983 18855 01050
28106 23907 94355 67885 35438 55205 93001 47216 42021 83791
93580 06072 83659 63831 07441 21677 78527 74173 18651 44794
45922 37529 44062 93478 73634 31806 80802 28118 48553 71391
48471 73938 42311 27691 60776 05679 78819 42292 53523 76157
02555 85562 34624 19557 98475 50285 70177 18431 33680 40902
83419 05577 53568 76322 73090 43865 82103 21678 69225 72281
18770 60333 24067 86636 24607 03841 43233 07209 41339 86794
84638 29357 26149 60917 65033 28761 23929 26204 29522 03132
34543 06189 69942 89063 17302 09604 13666 00698 62003 05005
91980 19344 43998 18659 42478 71015 54083 79098 58619 99248
77772 43845 46494 93734 70050 36582 11995 52042 34346 56571
11216 75470 70456 88567 88224 50178 81491 79419 73705 27531
59529 32097 54039 75072 11934 33043 68388 02765 90993 37750
53501 30113 53927 04912 98041 48559 07947 19386 44798 50572
88193 13861 65857 79785 28157 59772 94028 55725 39150 09763
84160 87494 42936 10996 05156 99624 96578 76728 49210 97966
64020 30053 94804 97016 10569 23473 94501 79205 90056 44094
85150 99115 34680 15911 05005 64008 16907 87874 31683 54222
15302 16311 55625 49440 94879 05245 99948 30018 02903 33557
22339 13130 22003 95804 39015 42059 50261 22461 79358 23107
82278 43370 05024 66126 15558 78119 87820 41888 53064 31458
03744 96118 01253 77489 14307 51053 25572 76158 02067 93699
39090 40450 96093 58913 00562 68190 92177 95994 49684 53192
14542 72656 39439 43897 14175 04780 28493 02910 55866 05409
95916 41540 69187 76607 59067 26784 43116 70505 74710 05951
64652 00938 51695 34781 43096 35808 84684 45750 47707 76412
92603 76053 19259 09278 08368 05386 10421 09108 64470 97472
69058 09473 09677 16030 63309 62939 85217 40870 36119 99783
23560 71524 47743 38709 12881 91746 17421 67749 90730 21616
31836 93281 88449 13626 62933 29126 53339 27213 80716 07377
04258 40009 15053 94953 38285 58254 79513 36824 48799 36559
66484 49761 32775 49789 38376 52574 74260 01454 89950 16294
30013 59055 06029 02419 57834 93992 10800 55507 34134 43684
19374 45721 25414 38554 96540 89616 29729 42572 39696 11292
53920 67247 34030 65035 00441 69236 48923 93425 84200 62383
47257 90490 81646 21292 04362 41372 65505 30204 07491 35318
51523 43322 57128 96535 43779 88629 57987 02495 08865 90226
25529 41304

13431/12131/11431 kHz, 09-09/12-09, 1100/1120/1140 UTC

01092 00492 49573 85253 23301 97643 22104 76998 42069 43091
74745 17964 92293 88016 54334 13185 28824 66921 84989 17781
24360 40877 38998 57081 07419 94500 14318 31684 43022 30790
60260 80159 77837 55697 75837 10158 13885 98564 38209 75760
58905 27029 93160 68564 22345 04699 07251 13333 67242 51163
24357 00621 20761 63202 32939 71656 25805 74498 02868 62289
30285 82538 14507 06531 86204 97398 88447 37615 08854 57050
43525 95623 23708 44422 28586 60095 62599 82646 93889 87122
95357 75709 67798 01808 12124 53390 95458 91883 81112 29506
46276 33175 63021 27539 28330 67818 50433 60709 70767 73440

80699 12660 37667 08151 41563 03975 09296 27718 61200 18248
56134 99512 90350 10884 00839 70596 94556 48461 56462 46710
13917 75282 55220 65067 20364 51682 48537 70767 57331 13647
02430 55460 89115 74591 65646 62199 46053 09839 60137 21616
86305 15166 93250 02854 34274 68086 36621 68462 41285 65692
03034 20829 50587 61658 11675 11799 81109 86772 72302 32412
84073 01571 57893 75379 55609 52781 30492 48714 76171 49443
22257 86805 96374 02905 19473 82359 00980 64929 54985 84565
59934 45680 99867 55523 33548 97194 09383 37370 87027 05600
14181 70120 04896 16666 37315 21493 48573 64484 15652 73207
25855 97028 84975 87868 32133 81753 90507 94793 68524 16308
78170 40275 76495 09450 36457 69296 03091 63195 47628 24678
96168 78916 47916 06211 59196 93242 35813 83101 19540 21996
20161 47847 28995 53813 84206 43295 34172 88425 73464 32655
37381 23050 57095 68624 84856 20493 81543 60050 55300 30788
73947 00628 83514 88373 45622 56787 59341 17207 17236 91241
47339 15176 12697 76648 93614 51774 38642 48768 74790 32881
28521 58082 83010 11356 39655 68396 51728 88517 61838 18954
12546 91830 61984 07496 81368 43492 35507 89202 94551 41016
17911 08441 26219 52246 95459 20921 88803 42527 11236 17008
06010 43860 90396 24148 98667 57999 63149 10600 33903 20631
31572 63443 69805 32856 42195 67701 55923 16218 92848 76945
34372 14281 49506 00976 97333 35515 86563 07345 83634 62211
65012 45797 51134 37915 23410 13378 25041 59332 97653 41060
92138 34943 71847 54149 58314 64755 08400 25498 74186 07247
18488 47008 48805 92841 72364 32820 58005 63135 24040 66460
98675 25156 92432 94085 94276 25640 23036 28994 46567 97678
52649 35982 88498 77496 13812 60208 64170 82248 04640 56999
08140 47873 84168 97569 24989 97440 97243 78083 91213 06817
26285 88455 78146 07688 42278 96966 82252 45093 52195 95973
61330 77340 27571 92725 03173 11463 77025 10141 19543 89775
87112 41338 38651 32117 14722 51432 51364 46800 72341 94295
70317 61555 78434 60306 65833 70422 46414 41802 67044 26525
01628 88257 15586 22299 78809 03336 17156 35076 68827 20070
47014 93047 95470 23411 46859 92583 37710 71710 38908 46224
15051 82814 42262 56031 75708 81985 34439 36056 08721 88616
07442 02695 21976 71396 10805 63307 60278 86688 14301 41467
34745 75074 63264 60834 66397 25404 07012 60980 91134 18433
24514 84238 32429 74129 77788 33331 37192 35740 40008 25893
85304 33105 17256 73375 63424

13431/12131/11431 kHz, 16-09, 1100/1120/1140 UTC

06170 00001 00000 10140

13431/12131/11431 kHz, 19-09, 1100/1120/1140 UTC

02768 00001 00000 10140

13431/12131/11431 kHz, 23-09/26-09, 1100/1120/1140 UTC

08878 00439 77443 61895 83807 95654 08341 54309 94791 33309
98253 02146 95284 89564 12779 46899 69515 76177 69036 38532
28573 85860 36610 63395 27559 72500 01668 45626 47962 11528
02535 31110 34576 82431 53545 19678 60742 71340 26680 27517
38053 70543 59698 79779 08160 55112 20334 88421 34732 20134
42315 50429 80827 48664 54387 74771 49282 12797 53646 25437
54180 09656 74891 01713 91617 82639 23715 88487 16730 40527
37852 78132 06998 02653 09547 96623 73303 66851 44319 66844
21456 33197 42371 33670 33411 71778 81730 92602 61696 17363
33987 66608 06571 32246 51871 40163 94824 49924 45853 36686
53083 99359 59322 18944 53221 66749 16225 77108 49449 90982
63564 21375 56121 59105 85584 92148 00049 81458 43023 41516
53509 42191 54745 21796 79536 21834 88643 24597 95336 64202
18739 43283 24787 28751 61061 26398 24548 62780 64664 05672
84690 31502 50185 02907 33619 66674 12596 53850 96227 15301

61206 70891 32138 04675 86836 23884 53817 45911 78836 12270
63094 87199 63725 09520 48254 15458 54245 94953 85525 66932
32171 79234 45937 17179 56586 22512 81865 54736 28446 60098
44578 29299 72838 57546 10867 96158 56827 11917 52686 23691
69263 08701 55155 21798 45585 18375 21007 73186 30760 16203
99045 71619 99216 79372 82494 17456 83743 25973 55820 76199
60419 48357 13074 14434 46759 11175 03477 94701 34911 64871
95579 53686 41924 95315 65009 09842 18872 43746 17408 53870
31584 95606 79221 85821 37927 19515 13898 33404 61969 07820
64102 73936 74084 19760 67971 23223 67275 78045 40199 72769
82233 52452 20735 76967 63769 88728 82914 49726 04446 76679
42470 16744 70977 34439 45215 99351 78752 12302 50445 96920
15526 73420 13104 85107 81971 49718 15276 04554 77245 83146
57367 76528 09919 72399 38353 46296 07735 50363 07036 31753
39763 65795 35129 44824 78353 63232 93602 56785 35365 35446
76215 77357 21820 22803 33688 10319 62315 85436 30444 68083
36776 24577 85457 29338 58928 56426 78362 91454 85395 25450
56825 57062 27771 41057 01104 52990 16204 32031 00541 83114
78045 13480 83110 09291 44218 06360 57560 94874 14297 34076
33924 55293 96242 55277 27800 06267 29055 53048 08210 88446
96865 17762 35977 21064 71521 58823 47254 22202 85521 64764
93171 08675 81599 42123 75155 94561 70349 75585 25579 56821
36382 39360 01423 13600 88774 87588 99851 03356 49526 11014
17182 77675 54092 72289 02311 59297 75292 18795 64304 15074
07656 78562 02880 40316 82131 54818 32874 87778 81956 52338
29355 22416 93614 90819 27600 03753 10075 01013 30381 22499
44607 76689 92156 22056 92345 56580 43325 63296 21942 13401
24311 22250 17908 86680 00565 35016 01719 16790 01493 96832
38203 11531 69334 62506 52023 27298 26686 63626 25565 09105
25762 11645

13431/12131/11431 kHz, 30-09, 1100/1120/1140 UTC

09825 00560 71983 07504 15433 14926 99473 44090 87065 11722
96572 43172 04154 80119 70789 03487 11166 92053 38969 70945
62298 19672 14824 89844 79652 45740 25372 64460 21737 56349
16224 01575 92856 12596 19724 35683 71760 11892 85101 95131
78287 61668 71453 55098 09742 11926 90188 17636 16649 19324
22805 67473 15409 27744 56375 24245 27531 99096 31835 99651
28519 47775 29174 05604 37391 02213 72502 49049 75530 46730
15387 90156 47656 64515 67091 27442 26540 66856 03112 43995
52716 43885 01679 19428 50744 56008 57093 40856 54126 83396
72406 71374 63864 50556 75855 39400 97569 39221 38235 05163
36735 00725 45774 45639 29577 32117 13542 84514 04210 28713
36225 81048 16888 95478 33294 38375 88241 01973 44265 98495
99297 61475 45712 19876 18127 06421 88350 97248 60451 11992
93541 29858 57542 35219 06068 27378 92400 01346 65470 26889
03525 32559 31034 30028 24189 29164 19626 10002 70632 16234
26058 25894 02474 22741 36771 84584 92780 31090 34627 03046
40588 90591 39892 68606 92460 02295 09062 73039 96710 01193
66138 91482 42801 98125 77210 42198 84064 14712 95998 45011
17011 41477 82861 92741 86612 46451 82875 05036 00556 36002
39645 85167 92386 46938 27958 27017 43513 14270 66136 39911
37655 80489 08763 31918 57831 62313 15491 07750 95401 96352
71145 89264 88156 36220 73324 05461 61011 71685 37536 11276
38961 02536 95175 49538 46117 97127 25188 22320 99352 74854
81075 49138 30152 55893 02124 81210 17609 67083 23759 06547
38868 84207 74836 72810 20102 03949 72725 01774 69043 09339
23730 86619 54290 46922 70887 86422 58760 20176 07551 01473
32834 71208 44373 51902 74819 93460 96962 91306 10443 20511
49499 31025 55580 75437 09918 01550 79639 38052 94266 33444
80102 26079 27987 53830 60239 38491 14925 58448 72190 64103
18658 52363 87558 14154 02438 51522 18808 04095 15456 76450
42880 43592 57718 86754 02974 02560 65049 64761 12183 14176

06013 24576 55240 65854 40212 65094 24932 81950 42529 37523
69611 02188 45103 35922 21758 26455 82542 25320 92007 10405
09847 31464 98312 76710 60334 36058 55003 68811 49857 98465
23925 58634 94597 51046 97914 56479 49423 58796 93052 39017
64521 41850 39831 01585 43780 52827 97246 18652 46207 42422
92525 00962 11701 36448 12856 42909 09611 92384 03578 91757
95502 67211 50736 20603 74671 67047 35578 51022 20513 16870
56270 66236 21071 69099 59046 34628 70657 29074 21134 28992
68587 04770 36712 14293 37711 04888 17466 92245 61844 43799
93072 99859 22775 00516 18199 00430 42001 23729 97427 59381
28963 42541 00997 11335 79124 30856 19776 23200 94286 97161
12309 68478 43535 57233 87899 82781 75201 69055 88246 39720
24876 53949 20790 07659 86811 76865 32209 16607 52982 01333
06948 52506 64517 93733 31076 97236 66648 58954 00999 67050
05898 72764 08208 69901 52590 29720 33057 81973 98422 80704
40335 93590 32306 62606 46597 84196 90533 22093 67579 85072
90576 80138 78666 07387 62744 91771 00716 08082 46716 16768
30761 38966 27534 94801 54826 87151 09384 29136 30962 23099
18693 38355 98301 08772 16920 31758 56996 17078 34325 58952
15153 95173 57354 25801 89067 93843 41434 03517 35649 96719
73831 05002 76187 56989 61852 89981 06598 99654 78755 76957
58025 42534 25791 46208 98975 63329 41767 09965 32670 66878
29291 47926 30811 62984 63234 65278 34140 65167 62766 54378
59911 28653 17346 79455 68426 41846 71838 29103 69930 97139
05351 04006 46364 14153 50259 48137 88645 22202 66035 72474
01315 13838 14262

19536/18467/16317 kHz, 0910/0930/0950 UTC

19536/18467/16317 kHz, 01-09/03-09, 0910/0930/0950 UTC

07310 00210 89257 67149 76318 94907 01196 83349 56107 29833
64872 63871 36472 90163 15031 75216 20748 49709 95413 33615
05383 61341 22954 21474 70976 61919 55585 69815 03640 32762
24802 29574 38999 87276 83964 74851 96775 30039 25469 24503
98890 35890 49140 10860 82884 25249 09540 75478 26904 38886
92009 30667 33068 69480 91132 81664 81650 63053 30968 42039
13057 98527 84740 72798 45869 27268 57275 94186 93304 41608
64937 40186 90495 04211 16824467343 95165 24439 34648 99809
16851 12361 47844 79440 71611 92415 72971 22692 62155 45886
00527 04336 71819 53217 43692 88262 69259 91839 71442 99119
64033 10395 68924 77412 65975 93594 02800 23610 42644 48194
52342 88542 96507 70919 26589 37014 96277 97918 42609 59743
01062 49381 74780 54837 28760 32791 16473 84317 22331 00570
04026 94507 42233 64939 83020 16144 54879 06519 41134 76795
49625 84166 73656 38708 33238 01817 52888 23146 73259 51270
96537 89428 25688 98673 61116 78022 69616 61801 59560 24157
68391 36161 55185 02404 36985 04472 00126 54278 98739 95463
78412 10349 32704 38552 34825 45012 12339 97741 55208 04675
52053 18074 86174 38891 94372 03246 42483 74509 42447 14731
33307 13768 50007 79781 42150 12339 35299 24803 07648 60430
87268 81134 98507 12162 74641 82008 48133 31341 91897 38587
67141 69425 25020

19536/18467/16317 kHz, 08-09, 0910/0930/0950 UTC

07789 00001 00000 41270

19536/18467/16317 kHz, 10-09, 0910/0930/0950 UTC

01084 00001 00000 33261

19536/18467/16317 kHz, 15-09/17-09, 0910/0930/0950 UTC

09192 00647 12107 67553 08543 03227 94426 88728 42203 20749
44620 85334 90636 66567 15002 17263 87394 55264 08482 56514
11615 17526 99922 40044 11644 97397 74886 60115 56369 71204

00321 95220 63881 32881 49530 42748 60810 80365 67730 47667
39775 51609 51471 80384 94889 77227 37703 07446 16377 39547
94829 94466 50916 69320 45154 20328 55098 13922 49522 73031
11185 87753 87831 75861 08147 85137 52016 21090 36929 53684
36530 68622 55643 88041 70001 29726 80330 29935 62427 81946
25252 73040 31988 38613 75439 64754 97415 28800 78025 33111
90206 98027 10020 68491 13117 14438 95142 85522 86375 83344
44381 39236 85413 81855 69695 46985 72356 42200 21759 44023
50826 33369 44471 10833 49751 46833 11147 42252 83225 70071
38800 88811 24266 29919 66733 65146 72573 75312 81699 77018
98225 16768 38895 41329 16510 94401 14353 75865 52885 09730
48128 58857 60457 96198 37474 50058 21206 23747 82748 65443
34116 13635 71558 99377 15885 44099 49230 45994 73085 76397
87902 49318 50293 28640 45391 02577 57648 62581 07047 84261
91290 88432 73651 57759 58417 19600 41140 13242 00666 19114
29151 08861 25490 18025 89876 88389 24503 79628 46633 21331
71410 11899 13807 44108 82490 40307 90642 52051 58894 55520
36726 16404 75146 22668 42749 88517 06111 97778 04392 09996
45406 89892 47709 93294 65823 50597 83815 06696 88958 78566
82290 54847 59119 87626 64025 41559 84912 34411 70853 81554
92530 67686 01026 09817 59204 87103 45746 90421 42148 85456
77797 11834 77032 57644 84265 12107 35889 27863 29683 35897
43394 84829 98879 89538 91654 87816 70709 71770 74612 89562
15088 21515 90237 47754 01896 72053 54902 11331 50792 93872
65269 50900 25712 25159 70736 11886 68109 23848 61978 75442
01158 81650 17303 78176 15757 47637 80770 51855 37630 08885
87317 49987 74331 68305 98568 23103 47622 17050 01407 87063
85363 94070 42019 13586 11441 03842 41092 96987 43214 59967
88255 01091 79172 15526 21318 21377 75738 73591 86470 81080
33601 78434 05338 63200 77828 12656 00723 35441 74131 34933
78026 39403 12652 13588 34885 34924 26692 45025 73930 18289
41761 28124 81738 27292 51143 81424 78127 93812 43857 39428
35720 48270 85992 05633 15908 70820 21673 56808 64546 32344
22637 59399 34637 58879 40765 23183 94758 08933 68281 72491
72854 91909 45869 07444 47486 69905 62374 36549 58447 97638
99494 70460 46579 94853 51938 30268 24855 80672 39744 72905
34885 62835 80016 59903 69093 77463 56533 62110 94972 64861
00892 06532 08211 55126 64625 25186 35373 66006 68206 48868
62237 68940 33386 09919 37256 00118 10940 65578 99845 44689
78121 49303 58138 23597 76078 36898 21619 63876 47903 59535
89005 92268 44202 73697 93942 57037 11065 64963 43722 35114
59876 40059 50888 17725 57823 36976 98490 86014 31320 76878
46230 29741 62343 22377 17676 30471 71720 77461 64783 55211
81743 85034 74614 58122 09435 12452 19444 00820 28263 90597
95157 47157 00831 21171 08144 60046 27776 44757 45015 57268
44808 38343 95440 12737 10453 24793 61612 77348 15848 14084
82649 33155 66005 66262 10119 98531 28226 93645 04880 46322
72332 72310 52614 73983 25122 48998 88886 44422 11246 53463
43284 83311 78372 44577 59484 62206 90540 74671 99017 35477
86801 29479 31149 09657 32879 58539 25636 53776 78273 11131
82754 64331 43364 09076 33362 69844 01338 11219 80061 12106
14080 19599 60138 25181 41446 76358 00641 10547 15384 27096
91979 91147 44991 20103 92067 42138 77185 33076 01343 44990
76586 93797 90668 42304 66561 99665 70426 48311 95725 52369
08188 61384 84560 63372 47049 29990 68195 57717 18155 66209
03896 05374 65349 92647 84839 71378 48422 77252 41702 51260
40920 73673 83911 59568 58391 51532 73465 54105 57812 85231
77474 22583 95031 57259 33684 72324 51617 14409 29499 53476
60814 37729 97909 74581 29104 51750 42993 94877 39609 33341
91110 98982 20814 24565 47594 72632 91306 66498 59064 79698
58069 96268 11765 65295 64748 80936 06139 25333 72949 13597
14103 77879 34075 84256 06869 08038 62274 25109 51329 33727

19536/18467/16317 kHz, 22-09/24-09, 0910/0930/0950 UTC

00856 00751 27965 43282 82400 78920 34292 47842 70692 52316
82979 69472 42109 59656 17556 48437 11088 83546 88439 28335
84904 75760 79143 41601 27365 78340 53009 87195 44574 07126
70202 22945 50464 77898 97742 93692 90141 11556 91139 08949
89170 01569 96688 84434 01265 88385 88057 69743 97698 48758
95849 18765 54028 08807 39896 65622 53491 92852 44046 16422
15128 99042 26946 23372 51699 53223 10356 73449 71515 46711
30838 74866 44696 93371 65876 41570 91588 08500 72209 37735
04453 22873 51221 02250 68246 33129 60776 89573 14751 32005
44261 89177 83634 78281 62271 50218 46368 28276 15124 17259
52965 70700 62371 24055 64414 72562 27303 64132 34119 76033
69972 00360 48818 32330 62637 60138 65847 95000 99571 25068
47228 26006 61476 68990 65709 73491 03027 51323 59025 09271
00048 13294 01154 44502 20750 16680 25577 75698 59824 19566
13293 55181 59572 06017 74838 63333 94595 32626 47319 38871
26719 39010 92924 71941 39231 37972 44563 17261 70263 26896
66451 32463 15421 95863 64941 48206 56005 77746 71444 57376
40031 62850 25631 97542 04611 06234 11233 72537 11060 03871
40044 15088 40589 91892 45148 55567 55014 51791 07149 63438
20885 91397 78241 88533 26797 01446 70188 47240 17666 38171
51697 04722 23615 89753 69237 97376 11750 60129 77093 58666
84576 49124 83597 40520 02918 17876 71428 63341 93534 69058
97491 15693 77476 79960 20594 39921 34845 06269 83295 02768
34198 16186 19399 80931 04194 11632 06134 87338 82793 37505
92037 91901 11268 13350 49431 80281 41431 08993 03527 17619
84159 11747 72718 70441 03069 90215 97485 32789 54045 83151
26917 61508 95816 87862 23783 50955 05859 88765 35451 63149
34367 26235 10753 21537 62545 10240 10699 30281 49604 07030
97842 62427 60527 08158 02001 80548 25408 96493 87046 36417
63941 20869 37895 15118 50897 34427 84481 24430 88789 96879
30219 91615 79763 69137 63477 85414 82106 24226 90958 78314
39142 85372 29263 68920 83820 50796 86653 42253 80209 73962
25791 24630 87295 40110 36097 44057 68389 66594 48105 91799
86037 27496 20338 75831 07479 12685 93318 76514 41231 93219
27828 92722 02976 27422 64528 50780 58987 04028 55460 55632
52516 97643 33577 88393 25322 57590 30722 47384 23300 35254
39379 64683 29767 71810 67033 36749 97197 29382 02277 97619
50077 57588 62850 93422 64170 89658 95183 04182 83886 27192
96158 78587 49362 87013 23271 91069 00395 98629 83058 11345
83025 27309 73194 83622 58810 61577 40659 47975 08957 87054
37360 81298 49137 21052 71811 62682 16566 60751 18654 29625
50649 16085 24299 02413 84867 72527 36664 82359 16779 14165
69271 44027 39169 87953 13147 52792 74174 17148 41408 47250
02781 13740 53240 43346 45813 36975 42372 10586 45533 96813
45554 20834 69776 22708 96140 16977 28338 37382 94686 42033
43263 31225 57265 48923 90230 78110 50424 87426 14657 10749
13602 05570 29174 95194 12494 53802 76682 78883 74552 96017
69475 44247 49210 61186 73676 72773 33587 69426 95824 86333
55611 86875 82092 47807 45251 41961 53304 06196 72900 57851
29465 44257 34826 48584 76692 17017 93063 87806 80197 75890
66798 63714 61665 99137 60118 46368 37060 13507 45220 97438
24394 91115 12642 15003 52196 92817 67380 09803 98912 88819
72471 25026 19554 90486 25087 60058 79032 12114 96016 59879
62599 88496 15409 58267 73237 10597 68470 96559 68752 12761
26805 33947 77267 93660 14126 83092 50416 64819 48070 31239
48891 48979 98703 75048 95290 09907 01884 87979 01592 76531
50155 52787 79435 26865 12360 22573 98740 66137 02595 15176
63919 18181 11562 82479 28821 81211 57115 42274 33713 81623
87925 01486 78329 25997 97699 81462 36277 35389 64309 69614
58225 61231 94626 58675 96823 91357 19881 46885 12217 90178
58065 50408 55826 41969 46529 47772 58589 11852 29140 24143
03572 99821 46437 87537 95400 69525 07879 51210 80276 89331

47243 76066 69526 92112 42413 60100 99594 72008 55906 98899
95135 31074 66790 27188 35652 12886 48780 98680 17494 74737
47769 18678 82882 39736 95177 64553 63268 45986 40874 68075
62547 27967 13010 94258 87126 76000 83133 18406 76972 77246
38126 49406 91893 38175 44693 36181 03507 98465 38914 88741
44067 02370 18726 85813 34026 40716 05487 84057 75024 96531
07535 49858 16679 33448 09511 27616 83674 60666 29134 69377
93083 43855 94759 19615 81701 78604 95709 23335 72414 13220
35723 49496 16400 18314 24541 48412 08402 59642 99469 19819
54939 47197 26573 37933 02377 27575 53308 16808 82164 12648
55073 34586 39323 94147 85103 48410 72698 42118 84086 33394
44029 17691 61182 88012 94900 40569 50564 56288 31017 15893
39605 87517 79727 94899 39745 17122 13103 05983 16128 99523
64778 22655 45525 43320

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01612 00576 35572 55632 27914 33790 33749 78634 40929 96426
96679 00004 51856 46252 45824 05006 06144 06908 70279 56149
71840 12966 97721 36903 94407 31735 18728 00067 30462 03105
30190 10115 41284 60425 86377 92021 23371 07999 68676 36967
64108 07434 21950 84465 21039 51287 45482 38027 60373 42365
56470 54174 62142 24797 97286 04880 10568 28270 88621 77840
56315 27404 13930 02018 92062 06480 92243 18517 51743 61536
05999 39276 98051 18150 27089 96656 48091 18585 86008 19934
76625 16599 95927 64034 33806 48810 83145 33767 97685 94415
85715 12798 74504 45587 52342 67461 59712 17802 76614 66692
12465 27639 77850 44526 16576 73439 37114 71764 78243 84799
81887 75706 79233 01990 43521 77668 74638 36598 46147 60692
06249 40290 55342 83449 28641 62157 25120 71784 35123 44931
80235 72699 84464 94905 18810 91100 41022 92972 21005 11152
15555 12440 93079 86012 55059 76221 07727 28847 57899 95464
95733 39173 77026 37777 89114 42833 33355 18884 49993 69972
29517 00650 89923 76644 00100 55677 33611 20422 88944 45588
11686 91608 73861 15759 59020 42852 25354 72493 23082 26267
03914 25021 43633 06594 29524 84767 41966 29265 54983 90090
74494 78296 27975 33052 40170 15869 09425 57599 70958 32246
91710 92166 59314 15202 20893 93938 92687 21172 41970 71971
06843 66673 13935 45309 07869 26571 79236 88228 01225 87529
38189 23759 28583 01656 51086 11305 53743 14873 83048 58302
65673 04096 18651 06286 46256 46216 55214 39497 89092 68831
06632 22551 69303 23280 03250 81394 21449 76906 68796 00374
25119 16846 11484 93902 17833 37378 52042 40604 58932 03683
23505 81728 93475 98393 86833 77766 94797 49873 27095 84880
81550 39135 76544 49449 92310 38056 73033 21612 34780 01052
46953 66398 12227 01534 47156 61265 55345 71676 47520 78812
07346 63133 28400 43179 63644 60988 07401 14499 80511 32745
89608 82307 20779 31614 47269 97382 89018 09574 19054 53609
16438 41452 61752 79973 76662 26375 53335 47505 39112 37559
96871 67553 23323 92099 81830 78249 12978 27411 22545 07762
57640 31211 06379 47205 46370 76235 49647 08237 40393 27038
44745 25108 56151 85245 34614 05478 26008 69157 24842 08067
10535 10771 13543 71895 51749 54059 89362 69417 98956 57588
18956 03612 77370 00229 46992 31817 61748 53781 75581 37551
66448 99238 03071 77901 98310 97360 95153 78201 67618 00091
59948 40940 51655 14691 28361 40998 77458 01496 43306 52634
47419 28828 15741 92162 03764 15303 35974 00405 58580 83653
95504 59749 16319 75746 17974 42653 01131 68102 51798 28635
64975 51153 52707 24466 74975 32174 02313 45055 09442 35443
38503 68336 17715 41308 86065 35530 88491 14207 16454 53385
68555 23689 62230 27363 05772 83235 43272 00664 02204 33620
23381 65323 15371 01160 27691 12743 51215 10336 09748 36708
18164 70167 78556 31361 35759 22564 92200 23298 17865 94599
20939 12084 51215 56672 57258 47924 78168 52959 37668 12912

39095 63452 32306 24272 82390 30248 00229 14313 58353 02625
89914 34053 08457 37698 63838 74267 31562 64708 70934 44198
09249 49613 18963 19567 84007 76237 10732 68497 36107 27146
48496 00237 25616 41168 12108 38716 30532 34221 69717 78774
59532 11696 58778 08916 90797 56270 46548 53152 70226 57578
24088 30725 63644 57907 74887 81571 42130 69598 93460 82955
85361 25260 65970 87729 70919 60526 56845 87995 17238 70583
18435 08155 07931 78978 32938 92392 55771 88459 33355 24649
19250 08517 54826 30326 58605 73486 38384 79542 83476 68212
39950 73227 11004 42713 87443 09738 81415 21092 60521 88183
84645 69691 80469 62937 02332 05400 62669 21540 50073

16117/14917/13517 kHz, 1100/1120/1140 UTC

16117/14917/13517 kHz, 03-09/04-09, 1100/1120/1140 UTC

03351 00303 56930 27862 90902 30260 39366 46952 82805 16907
27073 84290 90054 17759 40124 94212 73058 08226 48468 23790
78135 82625 33785 43298 74962 89958 56647 18157 87383 15504
89830 12483 25500 48629 11757 88800 78370 35364 03710 69168
80334 64311 19939 61815 32492 43261 40163 80392 36172 74727
31658 96606 54034 92579 95596 75330 21049 21515 00886 54701
85574 17802 88455 47436 54475 56743 70447 33886 72026 09769
85793 53516 02882 30235 06021 02474 41650 34238 49967 06580
75377 03724 41284 81502 55685 21734 30450 17739 10791 37272
42508 14451 99401 19875 26736 66996 71798 98924 46045 60882
70990 36519 35052 33877 02856 82266 46550 76743 27100 98780
05723 50374 42295 85218 39741 98929 81418 49838 20017 40931
84212 43100 38049 95599 43333 70003 36700 06144 18196 40432
69919 69476 32092 94572 78296 83357 46893 59142 77011 27821
19125 83625 71894 74007 46229 83922 62139 60280 79472 48754
87470 20514 94849 74072 54551 32433 30293 16189 17052 54401
75232 14457 25062 62180 52319 32791 54236 66310 71499 33735
80788 41199 12797 19966 78251 82215 87218 98339 44660 28309
11406 40392 97648 35898 61381 13788 24077 90894 88471 18317
15516 16726 24220 84738 38386 84900 07425 46101 70212 85616
18192 86514 86485 64727 37408 05338 09350 43454 59774 61941
54204 82271 53502 22011 12075 82270 01339 52381 41360 28354
10190 56843 37490 94787 88038 70333 35159 44061 77449 53088
77102 32948 47209 67236 68703 64909 58074 35777 07083 67262
55980 28542 17257 73230 44211 46222 33688 63793 28583 51821
87291 00403 51684 03448 92816 85477 87956 83252 46935 51834
44430 09264 92930 77728 55586 09182 45695 87438 17136 55806
96575 47443 18326 50265 37486 61089 89166 40321 48646 10820
09488 63445 98058 15967 34318 44861 90413 33642 60100 01392
70743 69534 82463 80981 11567 25862 87462 74717 09916 39556
36581 42904 51974 66985 66305 63077

16117/14917/13517 kHz, 10-09, 1100/1120/1140 UTC

06837 00001 00000 40661

16117/14917/13517 kHz, 11-09, 1100/1120/1140 UTC

05433 00001 00000 34660

16117/14917/13517 kHz, 17-09/19-09, 1100/1120/1140 UTC

06214 00873 48074 05615 81624 99640 94630 63279 93980 75090
51289 33752 09473 50355 74418 10435 22893 60839 34355 28515
24723 39766 79964 71616 63776 89218 57365 14122 96192 72880
88641 68037 60133 50707 63675 35649 13894 05026 15364 94697
16674 41137 87827 49065 46595 33033 99766 27860 56438 73318
97615 91081 17871 40715 22862 04382 43538 15005 88801 54992
26418 46657 08032 08783 07009 19919 41262 01265 46406 50488
54767 82937 26130 80826 54543 53590 60159 28695 56751 54495
07129 26671 11412 03934 79624 99486 83923 01089 25226 89608

50114 82424 59054 28317 55869 52879 77581 05523 72067 49298
02457 54373 09127 32518 71282 83924 31445 35177 45747 68787
28650 26746 01956 75004 92786 54872 54377 64973 67435 84378
92532 96851 18502 13960 65981 96984 15187 17959 63065 38960
58248 39574 96559 90013 68169 52590 37351 26065 59929 06259
49204 32135 38527 81804 62899 35848 66544 81436 13829 66924
72400 13465 09361 22397 87107 44823 20787 57996 52133 78313
90882 49735 55915 37882 56954 33307 82760 33535 18797 50477
37217 65731 69458 08944 19861 46468 09357 67452 36286 11503
69831 86021 87002 816055 3808 23613 73681 24032 44327 21040
70043 86781 52162 92089 19708 70602 41119 97027 19175 78098
48435 39508 70696 33353 21712 83633 34290 31777 64825 91669
80367 06203 15353 66773 36344 35303 95350 92008 46540 49136
98727 33166 56215 20834 45878 88284 53924 69187 90416 93087
60063 77564 41266 07481 96258 24575 95720 72017 68648 79180
20092 81458 72704 08420 61008 05257 66150 57683 70428 50515
87391 69459 03193 71004 95610 00099 13804 64209 00250 11115
76010 58061 55956 18056 27862 09596 68880 46857 57679 93786
76902 48035 16965 36304 60189 86996 00255 08093 39054 87906
83227 01252 82753 08884 19243 46614 25949 87810 84472 93905
36583 92001 36715 91724 45657 87780 50019 03134 34866 44500
13490 51466 72200 20223 11923 56778 01186 69044 27654 73733
21550 26817 70960 62330 12440 05769 54407 06306 18591 10888
44774 16647 75327 65124 92119 40364 30040 62333 08492 93422
29559 15959 85013 98139 86291 62741 67680 630822 5766 56239
40015 96541 19064 87440 00006 56041 96339 85687 74787 82988
55563 30722 77557 65632 93544 54145 49216 41620 00901 34157
45165 04329 02074 88812 43775 97722 94100 17044 55042 51715
72180 32767 45397 35466 88844 87894 16258 42354 75634 67339
09518 87782 18154 13375 30273 26423 37052 63063 09504 86197
11671 10290 93743 97311 53297 51020 46596 87029 81087 88062
10868 50488 36298 86574 53280 43723 71844 43002 43323 69702
44128 10504 11847 86633 72342 83189 24943 07234 17268 24493
73638 78435 91510 14170 03775 46311 86122 31309 67726 98611
67024 14801 38660 92422 61269 41019 51955 09770 82414 76360
39539 21022 97503 15133 41848 33362 23446 25156 79231 37982
97884 58709 79245 30730 78946 55811 37100 19687 81244 39194
99170 40945 50762 89640 83224 26989 29415 74987 79866 29244
82239 08353 96984 25788 75384 21854 99007 59811 76600 44242
55816 69641 96328 45684 59536 62268 98760 71664 89295 60264
24850 45569 75813 25843 09737 64526 63746 72555 28850 21046
34078 65930 29897 24241 41954 60832 43670 73891 88020 48206
19520 06887 11078 85850 87188 33900 03295 73466 43914 92310
02538 18154 19735 69394 67069 53882 80854 80902 17127 90097
63312 52265 18704 56302 24958 06295 98819 09420 94965 79455
02409 01190 60962 15726 82942 93510 21760 32301 91631 96732
48867 20923 87182 97167 88638 95956 20004 05295 76440 49455
31545 81387 09166 16366 68845 51019 54125 67117 02305 53127
45807 30878 08205 27913 75219 22661 11134 76893 64189 44201
69303 04871 35557 03334 85763 21715 59119 95705 35531 44408
71097 72654 64981 06597 21183 35169 70327 32803 32198 02664
78998 35744 95959 52781 29076 53889 64237 31620 51225 25563
14575 15746 03730 00736 38042 07444 06721 45253 34717 50057
12787 63801 74986 02067 20889 21473 55842 40038 38890 61902
36475 26123 29061 61447 37959 65548 17641 46015 41816 59040
97323 29755 90247 93869 90946 39876 76871 23726 32529 27370
89209 82103 55717 44899 68012 92502 52848 54308 77554 78614
80289 52651 44714 16802 07637 44067 86135 50028 47397 31728
74238 79135 96614 38977 83841 50448 79921 90927 48821 77188
45973 40605 47605 16367 41622 49795 17272 86671 00463 60962
43221 77205 73547 94665 90995 46272 35844 74674 04836 70006
40037 05298 97487 11648 16116 75608 18765 09107 36947 49803
30688 06446 77992 29282 81839 17143 59309 50927 58316 90492

59311 42721 27278 01364 57975 72230 68538 20047 46284 97179
24219 63436 09923 06635 40639 78859 97349 85771 29611 34583
02656 40141 05543 44798 59778 19832 58291 21497 59828 65089
34063 52336 50737 85881 02997 62517 90638 50710 76300 89527
10088 68842 07992 98417 88265 59953 19621 44670 50328 74015
07347 91425 92719 39417 53910 22155 76595 43253 63075 36760
17880 67922 83121 15523 14934 65010 54521 10129 41665 95413
89681 05827 59895 35842 69442 99207 29319 54833 80971 65233
70228 81179 09938 30571 88662 58023 45307 69599 46312 08918
99869 89302 91086 64944 57985 45961 12488 27198 40725 95373
83019 03975 76638 20103 95646 21544 16053 06804 79234 15505
06395 24960 42613 81826 45606 36758 35164 87242 36398 81088
01872 40785 47860 58519 71852 77686 50547 36506 52072 35996
34290 30813 27687 09343 11686 66276 41549 11009 64231 98193
71248 56801 80360 59423 85525 67607 59038 16887 43549 15750
48622 82727 05733 83926 15894 00566

16117/14917/13517 kHz, 24-09, 1100/1120/1140 UTC

08672 00001 00000 35267

16117/14917/13517 kHz, 25-09, 1100/1120/1140 UTC

05426 00001 00000 36257

16351/14851/13951 kHz, 1800/1820/1840 UTC

16351/14851/13951 kHz, 03-09/05-09, 1800/1820/1840 UTC

00317 00148 30704 69323 97363 68590 81103 58232 42524 42011
08127 00486 73836 51095 17380 32125 46992 25721 61770 12964
55774 38886 55463 70620 07683 96373 67333 52814 83135 80393
60900 55967 00858 76024 55370 99973 60867 91138 32090 86231
00157 58595 92307 90832 88252 71800 86666 11738 45082 63821
00351 78479 88158 67917 36146 48877 41461 24378 06738 52170
09762 30380 46863 58242 84996 00038 26129 34771 71240 09276
11897 10989 53729 85807 50218 77480 58687 68521 05377 01998
72973 32583 15666 29788 38988 73457 53401 16842 72405 88494
03303 35315 40822 76468 80425 13116 71719 05546 19807 08233
57774 22454 92495 26881 32477 12637 68461 82378 89076 74142
85555 44992 38621 87078 44345 47661 20520 41106 98588 46647
30791 17167 02222 57485 46943 84432 56096 75531 93844 55029
23160 16017 98535 05734 69521 65060 78877 05565 59056 35025
17322 57310 44974 62738 13178 47395 12727 30192 07464 61877
37431

16351/14851/13951 kHz, 10-09/12-09, 1800/1820/1840 UTC

05942 00096 68106 78584 68098 46545 29742 50691 62249 05965
33100 35183 26646 27206 56953 05520 87771 07439 30384 80722
66306 74678 00232 89769 52686 95946 67382 32743 98848 66601
27885 47227 58726 25171 57678 05324 40081 21053 48661 81307
96215 34934 31092 06446 12995 20588 88449 83950 01404 22718
06679 01042 91173 37264 16700 71556 75828 85385 78215 33315
13732 87276 97964 64512 33659 67271 82962 61921 47177 14026
41919 09877 42470 74603 77576 08180 51096 76399 16470 13671
04998 81607 80154 42151 66203 39467 87514 07783 39849 09559
51162 60904 67368 16593 25785 63819 64656 46314 76166

16351/14851/13951 kHz, 17-09/19-09, 1800/1820/1840 UTC

03005 00267 90045 57158 62612 45858 14527 06362 79564 38607
83257 42780 13929 22045 43938 48652 95621 42803 47235 51974
79288 03407 42130 26933 62633 37759 80159 33239 92295 10656
66357 40168 40587 61994 40813 65077 95520 17451 55379 82750
23596 37164 57488 59169 86382 94314 71534 38558 55409 62776
92180 11685 53963 59255 07110 62811 70789 46554 63614 63739
98381 85086 86187 83768 55320 00726 28607 22119 93733 67778

07913 65188 91959 74433 32734 62331 24855 32865 55968 78304
13559 33704 72811 96774 98062 07620 81414 18330 01541 67026
82567 55935 57054 30577 74771 51052 33770 68274 16249 88262
01481 00327 83017 60801 24937 94164 61211 50577 48989 79729
16474 92135 75405 64103 80039 63756 78343 74990 51901 60109
69540 02710 95218 08733 74457 83516 67376 24833 93911 03753
94665 16615 81161 67318 36240 20783 65585 55026 87738 00265
10132 58205 58702 44605 19316 38480 61808 58657 88073 02848
09263 10236 33083 13857 93830 44006 32472 77308 08857 08703
25702 38688 06547 33361 60066 27826 02887 08820 45451 48248
39199 46081 66006 73099 22673 65469 88783 03083 28286 73686
62180 32712 37747 78486 71038 30858 08858 08606 35805 68507
95465 09804 67309 62496 15184 31817 67580 66112 51446 72498
54852 31876 09479 31309 97360 19174 83711 78857 87837 88534
75537 99750 59050 29020 59231 50283 48782 76806 08782 01355
80633 85022 63233 00216 12712 80666 55275 63480 32620 88887
55628 40598 48780 33222 66293 64889 20903 06489 91675 88695
26114 14289 29670 59364 45401 84165 26477 63428 76118 18497
74691 93782 36253 40635 55206 17699 02253 06394 59368 73092
47251 51547 48722 24655 60008 09050 09362 35403 67161 22212

16351/14851/13951 kHz, 24-09/26-09, 1800/1820/1840 UTC

09159 00310 14458 91661 30983 27229 52629 96690 63643 46320
26554 18757 77884 14109 32513 88673 26180 11390 35048 91336
65658 36522 55062 76162 96150 78396 63870 67527 83967 11766
50131 63033 61131 32184 65499 81462 05837 92262 68917 20930
78377 70313 56027 51499 42732 91899 73326 99650 50077 75668
35159 88933 20566 53956 21248 30010 55419 13101 47206 33850
74415 00951 81586 38624 69496 96948 90813 63245 78199 15242
89213 16369 56376 03380 08017 73732 42862 66131 64119 18057
26378 94806 89201 87750 26190 69867 81558 44862 59966 66781
23939 22283 03673 30425 11924 67106 56011 94271 00107 85286
96688 98906 92661 90087 26332 18464 78304 02105 37019 83639
63437 75329 20603 70649 73972 82700 71632 81748 17365 97553
44216 59698 00142 83331 19923 91720 45948 46696 00012 54329
16967 21771 27449 89508 92775 46255 07028 49803 90036 18129
97345 69931 83245 44933 50665 36520 88364 66098 48050 39337
63696 82868 46662 48089 05737 76257 37634 93457 69497 21211
74415 27220 52614 13111 34089 82293 31225 82959 60372 82977
82207 23098 45357 14599 63872 49518 13246 11826 04930 55811
21146 12906 74602 51081 96471 34270 45879 85886 09087 45291
58515 85271 35583 62993 83021 83260 04453 17496 28225 12834
95073 40047 77397 29159 28628 73765 12761 11774 18369 54372
95534 59249 39405 58657 42117 49678 03090 73050 01252 47077
50234 55184 83099 62977 63478 87562 05664 14522 00852 56552
29248 38582 44995 97070 28694 11114 82227 85515 34870 79857
82832 51917 94189 28808 93006 50406 00975 34532 94251 26559
08444 27418 69776 41897 43854 23190 03449 68139 95335 38254
61587 35716 99203 83524 22863 33418 40566 72759 78374 69230
23365 77574 62617 60908 31679 08402 91154 68868 48859 89670
75534 16393 03931 84243 88900 74320 96104 95555 54225 52270
88385 61663 07878 62609 29651 89054 12722 88852 64608 43028
86511 65608 99585 66804 20821 57343 34377 39480 88973 02187
88447 34735 60344

17426/16274/14939 kHz, 1700/1720/1740 UTC

17426/16274/14939 kHz, 02-09, 1700/1720/1740 UTC

03855 00000 0000 26660

17426/16274/14939 kHz, 04-09, 1700/1720/1740 UTC

02476 00001 00000 36261

17426/16274/14939 kHz, 09-09/11-09, 1700/1720/1740 UTC

00213 00083 30017 05356 38838 10254 79485 76445 53427 09862
78887 17107 48780 28144 00072 14744 34032 21571 78884 03748
88205 83626 78202 94589 98028 79087 43048 86175 60240 63783
83912 72878 28286 08274 30990 93766 16264 19220 40075 95362
83312 08464 60463 06866 27165 42448 44509 10896 31771 68017
52013 48022 52857 99247 74755 76784 29092 50361 37177 92516
06566 00018 67844 63700 60150 84085 37066 49768 08488 71577
66680 25536 22679 19130 36192 87010 07195 27509 45252 10525
19032 66376 33749 13367 22034 12716

17426/16274/14939 kHz, 16-09, 1700/1720/1740 UTC

01294 00001 00000 34262

17426/16274/14939 kHz, 18-09, 1700/1720/1740 UTC

02883 00001 00000 36662

17426/16274/14939 kHz, 23-09/25-09, 1700/1720/1740 UTC

09597 00095 59298 37374 14709 83668 51733 71263 71051 28077
34731 49485 75936 57290 23142 69249 08760 09108 89762 86587
51383 69108 26021 44606 90620 90208 73541 93226 26144 18834
46957 52429 40862 73728 07206 89853 83133 44257 42984 43128
37793 08839 04320 39724 34243 07212 53778 18930 36278 92102
52863 38703 04948 90928 17366 25083 20805 24938 99067 95641
39640 77179 90227 26958 64924 11380 04081 35112 46199 94538
01092 53256 65227 57141 50685 55036 64238 60037 92299 02733
07910 27944 93745 94052 58982 92105 91146 72357 88159 14564
37404 13932 92549 79592 56334 67126 09994 66735

19572/18054/17471 kHz, 0900/0920/0940 UTC

19572/18054/17471 kHz, 04-09, 0900/0920/0940 UTC

07511 00001 00000 34260

19572/18054/17471 kHz, 06-09, 0900/0920/0940 UTC

05570 00001 00000 33664

19572/18054/17471 kHz, 11-09/13-09, 0900/0920/0940 UTC

01349 00340 95942 39904 18000 69601 83600 84054 85648 86425
10797 51825 04871 25335 29332 11543 44383 39512 67865 57323
09756 58235 52073 70466 16804 35070 22299 96067 70427 80377
33899 88850 32527 37779 12449 11366 70271 12089 68591 81611
18776 00029 65269 79605 28589 10436 33319 20241 05925 96965
18459 54489 46512 52884 26664 87273 04733 12061 66431 44007
46623 12409 75323 63844 69640 34410 24375 71622 00494 47874
07775 48466 33566 40514 64011 36556 42181 30797 44457 51655
19176 20205 45018 86222 13500 32509 67582 21527 60357 52569
45114 79589 15002 59059 77715 22949 50979 90183 90768 32655
97927 00158 63220 25877 60374 63990 59995 66191 84833 03969
04617 71364 69145 05888 70843 80004 23153 79025 90504 00045
55216 67961 96447 83773 74488 14760 50532 82251 18824 31740
33887 89730 61071 41007 84330 34331 436338 3105 66055 00431
95007 87632 26010 85546 94714 02349 56715 09212 07015 37177
11687 36679 22926 42270 33666 50266 43287 44141 49800 48033
08514 64387 94294 38086 61852 33235 58045 60676 74759 89449
39134 54965 45599 38634 01577 75945 81901 53016 67564 37922
07161 61649 83226 97291 89255 15828 26524 39187 55569 63560
77765 38886 29878 00751 87149 94923 72200 05977 25333 60664
94433 11323 32138 71266 67267 55999 60485 79493 79321 80774
64025 31897 14100 20651 03411 27747 32765 33335 66525 11541
30883 07882 53845 58388 42449 78702 66376 04194 30719 77887
20012 42014 44886 07855 15888 92795 07029 11462 87961 99225
88359 57411 35408 59087 73480 78933 39444 26689 42638 41701

15523 05228 70733 17795 72002 07956 99435 86777 34521 20220
38229 84253 09997 20488 77814 53358 73756 25872 88017 44359
58722 88102 64599 06645 35513 10457 54722 44213 60389 41089
19790 66855 69911 19706 62841 74408 88006 89986 69979 99238
64824 11163 36280 41463 66336 11303 55425 48216 00092 12895
11755 54788 20780 16184 42572 28932 20753 99713 03184 59907
78954 35973 78492 92942 18123 71547 54033 18347 02701 72649
71513 36034 28329 64710 47908 02228 65428 43399 16999 64833
49365 82000 57641 16503 26999 21306 26392 67844 84637 28325
90213 84852 65263

19572/18054/17471 kHz, 18-09, 0900/0920/0940 UTC

05970 00001 00000 35664

19572/18054/17471 kHz, 20-09, 0900/0920/0940 UTC

06329 00001 00000 37260

19572/18054/17471 kHz, 25-09/27-09, 0900/0920/0940 UTC

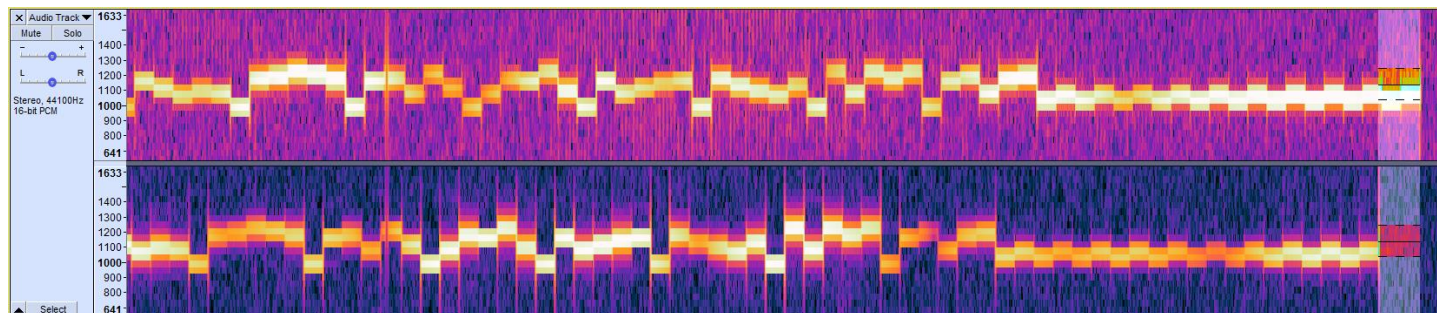
05230 00483 00242 84409 18186 76855 10212 50610 61192 39609
49991 86436 38031 58597 25469 19642 29970 49806 96752 66014
25601 57131 78215 54556 25073 87254 62775 57945 77678 28036
96445 12383 58444 22580 36280 60619 35783 55725 96111 11665
12662 49825 51597 20690 61097 75633 28478 34787 58821 96516
76261 42158 21482 79051 30068 33659 17638 75347 97037 10241
32757 59681 00678 95588 52251 92799 18244 77822 05277 66310
00861 88855 35213 73352 28721 90652 30332 32858 20934 06248
56952 63200 45035 49650 31437 21027 58685 00071 66138 56960
02845 22622 41175 06682 58066 32326 99821 68658 85014 76664
66704 56670 45886 00650 13631 35230 28708 66745 65283 66093
94038 22245 60801 04456 16900 50008 55507 11386 86208 16845
83896 07337 79171 66339 43606 82265 85664 43929 33530 38069
86461 58202 42009 76727 29777 45672 43478 33490 49578 14961
09396 60967 01717 83853 85644 98787 78855 54892 24436 55883
21394 28849 22989 03622 91037 81760 88821 80661 48842 39669
66711 82772 23894 87764 03357 32288 40080 71624 26441 49152
52450 82469 60930 12400 87054 88411 83616 58486 66887 74869
66140 19043 34039 33950 12014 13574 78076 24861 87316 89914
58779 65839 77784 81302 48388 59648 07694 18404 20185 56477
35888 28014 15449 37965 82883 24666 94520 22328 95699 06068
02910 30401 69597 77822 92601 57249 26752 29087 34348 29946
35546 43439 64550 22422 05589 47414 91177 86731 39511 43743
35006 95744 43417 08367 14638 19224 13090 02860 36215 63080
70718 38118 54392 10238 99022 91359 01910 35086 66193 77854
07236 18657 72147 07775 72799 80866 35335 10704 59052 91475
53239 28314 68728 39663 23377 01653 80195 49086 86678 16235
14528 88387 57444 41212 28726 65074 34799 03272 60044 88148
64947 88033 87995 84804 08265 82056 11231 55647 61308 88831
14093 93803 16055 30883 76311 46234 70359 36018 35299 52008
57587 40238 11679 51612 80688 75039 10086 94949 99756 76762
21364 43077 86602 65594 85630 20506 83497 91540 05814 26184
68251 18919 95462 57688 28730 99414 35464 12932 11676 60277
06698 03463 13788 48334 87806 95019 91106 22998 85470 66924
92507 60382 61815 47387 90741 75676 96812 75039 03273 31469
19292 40440 16313 80457 41408 48970 07091 01952 82934 08803
79994 34484 83781 32700 30608 96091 05677 63864 26284 33263
92606 85085 99570 18147 14059 44227 31789 88465 71998 09168
74340 60282 08380 10046 18019 44071 83268 59594 51691 70077
17757 20636 13374 54344 86734 30202 18249 39616 56420 51626
83327 91402 48570 53560 78451 23333 14677 09581 20539 80574
18496 99305 04639 84491 65444 65848 28261 85617 70704 59585
88315 37233 58248 78619 16502 45339 85888 13236 40027 85255
62883 32633 95171 39316 08566 42612 00199 73300 88188 87471
28696 06207 56491 12820 65872 87954 53886 44626 61678 57906

26330 55536 33700 24602 86437 26096 33855 19115 79364 36482
 23266 05562 76009 66049 08663 70804 34235 25274 63232 45232
 28143 03573 69088 32259 61789 57245 19155 37387 84266 72246
 82188 63989 34976 79653 87594 52054

Test/training transmissions

Comments by PY: From September 24th to 26th there was a 3-day span of intense and unusual XPA2 test activity. No activity observed on the 24th before 1125z. Strangely, 5-transmission cycles followed, with no xx:50 slot activity observed at all.

September 25th saw more consistent activity throughout the day, with doubled cycles simulcasting the same message on two frequencies. Strange phenomena there; linkz analyzed and observed a 280 ms delay between the two frequencies' identical transmissions. Moreover, numerous spurs could be predictably observed at regular intervals equal to the difference between the two main, actual frequencies.



The 24th's cycles were reused as lower-frequency slots, still with no xx:50 activity; while the higher-frequency slots showed no xx:00 activity.

24-09 1125z	16287 kHz	Message
24-09 1135z	14506 kHz	Message (not a repeat of 1125z?)
24-09 1140z	16287 kHz	Message (end cut off)
24-09 1200/1210/1220/1230/1240z	18048/17473/16079/15858/14581 kHz	Message
24-09 1300/1310/1320/1330/1340z	17454/16041/15865/14494/13958 kHz	Message
24-09 1400/1410/1420/1430/1440z	16319/15874/14844/14368/13921 kHz	Message
24-09 1500/1510/1520/1530/1540z	16047/15856/14896/14379/13883 kHz	Message
25-09 0510/0520/0530/0540/0550z	????/20235/19541/18336/17474 kHz	Message
25-09 0500/0510/0520/0530/0540z	????/????/19591/18386/17444 kHz	Message
25-09 0610/0620/0630/0640/0650z	20911/20334/19253/18616/17421 kHz	Message
25-09 0600/0610/0620/0630/0640z	20961/20384/19293/18666/17461 kHz	Message
25-09 0710/0720/0730/0740/0750z	20838/20018/19474/18319/17467 kHz	Message
25-09 0700/0710/0720/0730/0740z	20888/20058/19424/18369/17447 kHz	Message
25-09 0810/0820/0830/0840/0850z	20824/20533/19218/18322/17473 kHz	Message
25-09 0800/0810/0820/0830/0840z	20874/20583/19268/18372/17433 kHz	Message
25-09 0910/0920/0930/0940/0950z	17462/16211/15866/14573/13896 kHz	Message
25-09 0900/0910/0920/0930/0940z	17432/16251/15916/14623/13946 kHz	Message
25-09 1010/1020/1030/1040/1050z	19318/19114/18241/17422/16085 kHz	Message
25-09 1000/1010/1020/1030/1040z	19358/19064/18041/17472/16135 kHz	Message interfering with E07
25-09 1110/1120/1130/1140/1150z	18514/17473/16097/15893/14394 kHz	Message
25-09 1100/1110/1120/1130/1140z	18564/17433/16047/15843/14484 kHz	Message
25-09 1210/1220/1230/1240/1250z	18258/17423/16129/15818/14531 kHz	Message
25-09 1200/1210/1220/1230/1240z	18048/17473/16079/15858/14581 kHz	Message
25-09 1310/1320/1330/1340/1350z	17424/16151/15815/14444/13908 kHz	Message
25-09 1300/1310/1320/1330/1340z	17454/16041/15865/14494/13958 kHz	Message
25-09 1410/1420/1430/1440/1450z	16269/15824/14794/14418/13971 kHz	Message
25-09 1400/1410/1420/1430/1440z	16319/15874/14844/14368/13921 kHz	Message
25-09 1510/1520/1530/1540/1550z	16097/15816/14846/14429/13933 kHz	Message
25-09 1500/1510/1520/1530/1540z	16047/15856/14896/14379/13883 kHz	Message

September 26th started with doubled cycles identical to the day before.

26-09 0510/0520/0530/0540/0550z	????/20235/19541/18336/17474 kHz	Message
26-09 0500/0510/0520/0530/0540z	????/????/19591/18386/17444 kHz	Message
26-09 0610/0620/0630/0640/0650z	20911/20334/19253/18616/17421 kHz	Message
26-09 0600/0610/0620/0630/0640z	20961/20384/19293/18666/17461 kHz	Message
26-09 0710/0720/0730/0740/0750z	20838/20018/19474/18319/17467 kHz	Message
26-09 0700/0710/0720/0730/0740z	20888/20058/19424/18369/17447 kHz	Message
26-09 0810/0820/0830/0840/0850z	20824/20533/19218/18322/17473 kHz	Message

26-09	0800/0810/0820/0830/0840z	20874/20583/19268/18372/17433	kHz	Message
26-09	0910/0920/0930/0940/0950z	17462/16211/15866/14573/13896	kHz	Message
26-09	0900/0910/0920/0930/0940z	17432/16251/15916/14623/13946	kHz	Message
26-09	1010/1020/1030/1040/1050z	19318/19114/18241/17422/16085	kHz	Message
26-09	1000/1010/1020/1030/1040z	19358/19064/18041/17472/16135	kHz	Message
26-09	1110/1120/1130/1140z	18514/17473/16097/15893	kHz	Message (1150z no transmission)
26-09	1100/1110/1120/1130/1140z	18564/17433/16047/15843/14484	kHz	Message

Then from 1200z to 1500z it operated reduced 3-transmission doubled cycles.

The full-cycle lower-frequency xx:00/xx:10/xx:20 slots were now reused as higher-frequency cycles, while the full-cycle higher-frequency xx:20/xx:30/xx:40 slots were shifted and now used as xx:00/xx:10/xx:20 lower frequency

26-09	1200/1210/1220z	18048/17473/16079kHz	XPA2
26-09	1200/1210/1220z	17423/16129/15818kHz	XPA2
26-09	1300/1310/1320z	17454/16041/15865kHz	XPA2
26-09	1300/1310/1320z	16151/15815/14444kHz	XPA2
26-09	1400/1410/1420z	16319/15874/14844kHz	XPA2
26-09	1400/1410/1420z	15824/14794/14418kHz	XPA2
26-09	1500/1510/1520z	16047/15856/14896kHz	XPA2
26-09	1500/1510/1520z	15816/14846/14429kHz	XPA2

26-09	0830/0840/0850/0900/0910/0920z	8148/9283/10427/11574/12153/13439	kHz
26-09	0930/0940/0950/1000/1010/1020z	8148/9283/10427/11574/12153/13439	kHz
26-09	1030/1040/1050/1100/1110/1120z	8148/9283/10427/11574/12153/13439	kHz

12124/11507/10754/9256/8135/7621 kHz, 01-09, 1230/1240/1250/1300/1310/1320 UTC

01251 00292 41649 09729 91424 31529 25418 88120 90944 96091
53604 72820 70408 34264 67131 70497 21433 17504 61653 68740
38276 14154 03926 95451 86420 65656 36229 94300 95862 42354
40911 40825 32232 07150 92435 06566 92614 24469 97913 42353
46812 58757 06371 97280 71300 67129 05171 28930 37542 81501
82133 55705 17010 91464 23259 94347 18341 46196 23307 25768
95299 31117 92257 48589 55180 12778 40587 63257 41827 60564
77882 96963 19590 19299 21927 79517 07782 06644 24151 19291
60484 07298 56757 14361 60220 85205 23815 40767 83889 98087
88224 46417 01161 72144 47053 15695 66499 57781 42100 58521
26541 41912 87101 76977 03618 85168 36114 97709 69537 43741
86564 11696 22045 04016 65282 88000 74358 77895 88367 69973
88962 99819 79366 43739 72339 31465 95801 47444 72245 06232
13017 50000 64543 65628 92748 18571 20196 79779 10742 75050
49090 26104 71228 40148 11522 76527 24372 97144 06862 59051
41335 88602 69412 72125 69558 26720 62545 43361 04637 72151
89366 88668 25463 63304 30723 36564 47151 56415 11266 46710
67804 94578 67152 13316 20882 62857 28590 39218 32217 95810
07093 98656 40582 13194 64895 24414 80586 92417 96069 66027
56025 76834 75141 38590 85683 60421 00640 07924 09425 74957
29376 67955 85877 60150 91246 46756 21449 56095 51242 06700
98129 23326 11144 08826 65058 90708 48086 12269 98408 06308
55976 54733 60344 45237 90683 90968 19436 28562 27632 60460
62217 20666 29792 57258 66434 39136 12779 80430 21946 18139
02964 24490 41174 89369 67897 32698 65689 66315 73530 94974
12334 88370 09514 03116 18980 74642 07611 40639 69465 00277
27320 92885 28463 90780 44481 77462 93533 53884 42391 25922
77929 67655 90321 80268 03344 31486 13558 70973 77339 57984
25279 53119 55031 32657 48126 73846 11151 26676 38278 91790
31525 72138 10964 21669 66546

11469/10562/9375/8175/7672/6849 kHz, 01-09, 1330/1340/1350/1400/1410/1420 UTC

05170 00294 92334 95041 76198 02124 44142 16915 80440 31903
03349 97251 88763 64467 51296 81519 80207 99003 63006 33683
09939 26265 16368 96215 37651 43048 21476 36928 36596 23651
31176 60901 98855 27415 50881 82384 63524 94471 54742 14822
92504 13428 99546 73604 72752 30618 19081 96735 06669 95252
39346 48395 01818 24629 45145 22399 29911 96117 57389 33150

80646 07214 80318 56788 00727 42447 98394 61347 13585 68911
07995 85735 44261 48184 41177 96509 26718 42763 23463 07033
23967 24740 30258 41342 84303 82779 59082 74225 82268 28482
52472 67405 37081 21592 34174 85290 33108 42757 72877 30305
32223 57732 83149 37756 77257 53610 04134 53633 83451 48634
95679 87147 72654 50356 09182 55906 76954 38976 72484 17946
83363 24168 79078 85101 16439 50588 48653 22668 14009 55885
63401 83959 69885 93157 74808 66233 41589 92500 64084 30693
78645 05448 90773 33633 32802 65324 94750 86724 12409 78267
08335 94131 70272 54930 46940 08055 78653 98046 21317 26668
04957 81464 39624 27565 85232 11719 17261 79496 75546 42948
14317 84453 74891 41791 39300 77913 33394 45444 52299 51114
55836 61927 10259 35740 47549 69268 13687 14955 46216 66753
87579 43541 71183 37415 25735 97179 65823 63207 48400 21082
48062 15254 11177 69460 63950 23881 19240 28481 15629 69024
74659 33208 45707 70201 70831 43028 71205 03883 80015 15963
98031 02306 33279 08793 55367 70774 13270 37476 16055 42120
12091 70186 97043 31217 03052 40582 50750 40798 71789 23668
50028 85205 99324 77191 92092 54371 97793 00981 66583 82706
25974 61939 83190 32436 23050 45756 81974 02384 14092 93174
10611 81763 12425 73508 56932 04473 36163 14530 67149 30248
92277 30406 32092 56347 65933 12825 02980 56087 16699 00996
72980 12289 70891 33347 16145 50150 86994 64606 08166 57294
58607 48366 26706 78614 13057 68264 51167

14398/13436/12143/11497/10713/9351 kHz, 01-09, 1500/1510/1520/1530/1540/1550 UTC

03543 00083 94577 22880 53948 89708 32981 25409 31054 08504
35796 12152 46678 96548 93945 32160 64066 12871 80807 89877
40301 15387 62453 54697 24469 20552 73132 46252 07329 87516
15824 30190 25810 68088 39823 11946 68995 00720 89856 72309
93996 82314 06503 08858 19278 60749 87085 53757 36221 13507
77229 73597 12900 92561 91431 81284 56953 39880 98409 33396
16575 86728 18080 43536 92678 05605 86341 78588 56725 81998
63163 63345 23014 08498 95879 57985 08883 53595 35418 63718
33466 19374 10030 93821 10287 70717

14398/13436/12143/11497/10713/9351 kHz, 01-09, 1600/1610/1620/1630/1640/1650 UTC

06011 00082 53865 54123 71799 53158 92760 97052 83242 06734
13745 10142 47523 88010 40898 24737 59415 45840 26065 00740
31817 06925 77233 18134 66889 67474 92722 17488 83973 00670
59820 10827 71140 78819 87841 66934 78910 81536 04866 36741
83603 12132 09316 81107 38394 62154 47172 48128 59796 43502
79108 57597 43891 28092 66578 92090 33746 35730 87232 04325
60434 75271 13079 82571 46912 02917 39000 68702 00168 73962
45826 77878 40974 89322 17135 19684 97608 96125 79739 04735
20301 44594 57690 40470 46011

14398/13436/12143/11497/10713/9351 kHz, 01-09, 1700/1710/1720/1730/1740/1750 UTC

01221 00091 02380 29639 88204 14368 11402 71806 95977 93332
09962 83429 14726 88456 95787 29665 90090 41178 91617 27702
40389 68297 89202 88371 46469 89888 54971 51904 52724 56318
50957 22435 80876 57130 29857 32507 63435 17008 41893 21586
07659 23429 47463 80956 78512 06966 06328 85332 06045 85960
58634 38855 17384 17068 05611 02074 68636 14008 83168 98314
59396 59497 19081 39659 42374 87526 02552 57595 58599 63280
66229 73082 99284 70030 20042 16960 20833 08246 09858 39503
83560 69637 45859 66762 97682 12102 05051 63808 51518 27782
63869 49427 33838 16747

14398/13436/12143/11497/10713/9351 kHz, 01-09, 1800/1810/1820/1830/1840/1850 UTC

07150 00084 25312 39471 21073 37316 56282 12148 19118 30314
39479 39239 57436 46439 58170 66111 41911 41513 29446 72047
27283 32471 60328 67957 03846 88764 98094 98544 53976 30365

27877 92675 51859 05889 07959 44351 05377 26273 73305 95898
73122 40005 44531 43946 89289 01368 31493 35922 38675 32614
28019 56280 74109 71510 38846 38033 63447 57354 35624 32308
39220 57736 58170 88752 02436 46803 87378 51546 38480 13819
60734 15638 68207 33546 98913 87276 87938 16381 78666 02478
57270 62171 59869 21361 02346 71596 25140

8154/9341/10429/10735/11576/12197 kHz, 02-09, 0800/0805/0810/0815/0820/0825 UTC

01821 00149 19543 84492 02962 81329 40500 87983 20722 23861
96671 39418 82414 66394 81603 80575 91022 42817 50809 72989
72080 61791 41812 38256 32396 62114 43387 25994 86463 93826
39010 61355 32706 33200 16918 01557 44688 21630 88053 87217
55259 80871 42749 13586 58973 58599 90770 38862 70388 88024
02692 53271 34382 12771 87066 19125 50730 81285 52096 40847
37942 14505 01519 26895 84849 35315 06712 49214 49476 80045
35886 69392 54763 63591 17729 91207 19042 28225 79282 73796
71342 04525 55604 98438 91133 85738 26973 19934 46132 97791
50825 63402 69532 47206 49275 40754 79352 15854 28736 23657
51887 41556 89385 90341 52138 33299 98507 70790 95040 95857
00083 22504 02002 78299 69503 33417 58899 03080 35760 99110
08342 86776 03081 51683 29220 72482 99858 07556 14315 76974
11855 03188 99488 55625 21908 29785 15138 65262 46299 57834
87229 56181 24893 50274 97708 28320 61400 91232 77701 15858
81853 54651

9289/10346/10713/11434/12161/13394 kHz, 02-09, 0910/0915/0920/0925/0930/0935 UTC

01079 00141 45348 82543 74073 65266 27133 91430 33226 20659
25341 29186 28267 96311 09389 84780 73348 79243 87541 86170
91301 00416 46556 96217 32668 27521 70593 82076 11873 62412
42823 58149 85392 91382 47736 80769 22678 03291 79902 24344
72222 72719 72445 98492 92344 49595 09078 78399 77821 19951
87564 46368 06029 85934 98412 26854 64909 49129 49874 46551
94672 45056 79556 70812 77834 67191 43792 36884 48574 28618
62102 70056 99340 63196 13947 18581 27970 48063 03873 83071
18443 92192 04254 91921 74847 96454 52119 99456 92969 20881
15860 73547 53416 33350 29670 27166 93162 01632 20657 25153
05802 72193 29824 49202 57847 17507 47026 42831 71987 79831
98882 16845 45256 66801 28108 02479 40801 87634 95964 81378
15071 44334 43913 27692 12757 88554 16640 65990 33526 86780
25418 26338 27405 78719 77268 46249 62367 55050 34073 57340
49428 09288 27469 04566

14398/13436/12143/11497/10713/9351 kHz, 02-09, 1500/1510/1520/1530/1540/1550 UTC

09229 00089 08361 56402 86584 64420 47262 38860 58180 41193
72710 79532 22373 47065 23436 46424 68959 94455 99306 57270
43191 90711 61041 07589 33583 95145 58498 85050 74065 94320
52956 34575 58022 22328 00183 10223 92160 67374 39440 23936
84776 13412 68524 64503 36718 49578 45374 53790 98953 47020
79455 12722 76956 39948 48355 60103 85649 00771 22819 91438
04922 62210 64793 63858 88235 38134 21510 00043 35882 14313
54263 01584 55014 75369 72483 29779 22186 96537 70869 84003
48770 05707 86096 27045 14865 40234 57618 18073 73973 51078
24573 33651

14398/13436/12143/11497/10713/9351 kHz, 02-09, 1600/1610/1620/1630/1640/1650 UTC

03619 00085 84177 11951 30398 74467 18425 81397 75725 66866
06584 75181 32664 51971 46579 31403 22234 75393 38296 05201
01663 53206 26364 53532 69317 34165 11930 37129 51587 00950
84582 73211 52237 07245 42459 88941 76023 74086 85391 88705
89940 54482 19473 74438 39594 61918 66649 22579 07916 72024
56675 20739 75398 37654 52666 99893 02597 30645 42632 96232
62537 81295 29810 74775 82283 33372 22944 25418 09512 57637
55378 48146 90001 49589 15259 47179 33733 51924 13937 07398

67515 89349 29213 79561 44274 63843 97811 55730

14398/13436/12143/11497/10713/9351 kHz, 02-09, 1700/1710/1720/1730/1740/1750 UTC

01944 00093 37633 41974 23072 60118 73908 39654 64719 75115
28840 48862 46551 24324 08406 01739 19993 77718 39978 29235
89456 76860 84619 41006 04619 19881 54403 24719 31687 68459
85606 28857 35181 97328 65900 42382 30982 00821 38346 58933
82244 14618 59878 07692 29593 71974 66808 69243 43178 37752
33248 72322 24263 43833 35386 25737 81054 96626 37355 03190
05714 49188 07966 96258 89508 99981 13680 49221 58423 66022
70755 19171 39371 81043 46990 74837 16981 76927 11413 32644
53072 85159 81540 93934 35211 13283 04593 91347 61942 40162
61326 34354 63465 35156 53218 75331

14398/13436/12143/11497/10713/9351 kHz, 02-09, 1800/1810/1820/1830/1840/1850 UTC

02178 00093 44795 92211 73624 67704 80230 55802 29217 97003
20867 38307 36821 79832 74129 06106 00202 88432 64866 89948
33190 05271 58849 88610 56151 06379 73015 92022 99468 57257
43439 21742 48024 68836 52890 08861 23629 71461 30993 85066
60681 71268 47522 34073 06291 29833 98311 01470 46118 90647
54946 45403 36164 77145 63097 57364 00044 56183 37059 67244
94688 88217 56333 71959 43464 99123 90280 67983 26931 65268
82475 28741 58499 79798 29266 61920 47748 23775 82218 26317
08066 71544 35903 08820 02320 08136 85576 70879 05739 95425
99516 67444 34401 63687 90377 06727

9289/10346/10713/11434/12161/13394 kHz, 03-09, 0820/0825/0830/0835/0840/0845 UTC

08500 00050 83646 27624 08479 31133 14219 54442 24727 47291
30362 39900 14262 01504 33962 41031 93662 20168 28135 00906
24734 37643 68144 71508 83401 83825 16884 99881 45472 55653
83481 82581 26283 67190 25634 37725 02124 04500 37532 46059
29785 13599 26324 53746 82700 08855 97349 22785 15904 66000
69960 92332 04644

14398/13436/12143/11497/10713/9351 kHz, 03-09, 1500/1510/1520/1530/1540/1550 UTC

03775 00097 20508 13470 06922 15310 21426 75935 92351 89839
12561 54775 82563 91341 69004 79194 28597 07804 53790 09555
09245 09064 48902 13169 80445 52612 23114 48837 78314 96716
80006 55710 10158 02918 91352 51133 18191 31312 75107 13502
24056 55335 25612 96702 38477 53534 32117 26354 00687 74369
56906 90821 97441 45558 40517 11903 37198 07338 33023 54308
92195 72588 97620 95633 09832 56850 44617 79645 99987 17870
61003 97283 32695 40287 85497 53909 83451 52199 74690 26911
20495 96758 48150 03945 39809 89184 58267 64598 62399 79448
13935 10852 98287 20799 21306 51467 57714 29978 86869 71362

14398/13436/12143/11497/10713/9351 kHz, 03-09, 1600/1610/1620/1630/1640/1650 UTC

09025 00084 25331 09833 75300 47468 45970 06645 51292 17080
61900 69267 05340 98433 01368 33330 50033 0241 40455 13224
35885 45680 68148 54502 87372 00317 46780 28886 30333 01106
00082 37260 18109 33304 50869 03122 64038 61370 13142 02386
21142 90915 30723 54196 38234 48604 53687 72765 90703 07123
16021 38640 62168 62563 08210 62910 45652 59717 11348 64871
89575 06073 75210 39074 06988 14640 51158 72034 47563 09356
76361 99772 88209 49173 03162 55990 26068 25063 27378 49879
56740 85124 49192 24310 96195 71451 01345

14398/13436/12143/11497/10713/9351 kHz, 03-09, 1700/1710/1720/1730/1740/1750 UTC

04441 00087 31958 27726 69783 69493 92337 45127 31984 73799
97462 99707 59961 30424 35049 20170 58510 95140 04664 62147
64386 91433 63742 30003 40616 59075 76255 74001 89718 79772
88979 14927 54142 36509 12618 16721 67437 00196 99844 02956
29442 93366 68271 27549 69280 72657 01982 01861 31764 94888

84796 61311 06323 93462 17828 03589 74408 01955 87109 10708
93236 18335 55407 52210 84819 82534 45565 23452 17806 18328
52732 58313 95295 01707 32705 71019 23162 36193 60721 67957
57092 74394 42237 94829 94975 27668 08603 60679 18680 64315

14398/13436/12143/11497/10713/9351 kHz, 03-09, 1800/1810/1820/1830/1840/1850 UTC

06927 00097 08665 29986 62506 32898 30954 17550 36467 67804
60990 19273 10527 82532 35281 61982 42291 99737 51099 99833
47357 59530 39301 34671 27748 95998 25578 56550 52434 20183
53693 34515 37534 30299 87045 09118 35822 69726 91921 76547
63661 55278 79368 43076 51394 11102 42180 08896 40023 60894
90276 31419 11520 03318 70879 12485 46122 73992 02238 66506
07320 74403 65114 16283 14111 26474 81737 80227 95486 26162
26159 72563 07815 74550 36171 92078 80161 96224 83275 16645
53818 16681 16527 91539 29906 22273 22995 34215 59419 74560
62995 61829 67487 25415 69226 89257 90162 63084 28965 04716

14398/13436/12143/11497/10713/9351 kHz, 04-09, 1500/1510/1520/1530/1540/1550 UTC

02517 00091 92399 97587 37462 34328 38448 64355 22888 47191
73280 84837 88738 09789 27849 64855 66821 40539 08349 69248
54821 61864 32540 30493 99494 18859 90117 56540 20701 56584
15867 02469 01967 70823 77352 50737 22927 70124 36900 09574
62168 90386 99572 43532 10204 82993 98966 84463 12504 45206
69261 25540 45859 51282 58412 10043 23147 61906 98091 18602
44209 81906 43653 66303 31323 70811 82870 17915 32436 77111
41928 96695 03638 98774 07080 64434 62291 89007 20288 16500
19892 05654 44035 75494 87321 90325 56608 50683 12410 67308
27590 61020 72032 40325

14398/13436/12143/11497/10713/9351 kHz, 04-09, 1600/1610/1620/1630/1640/1650 UTC

06869 00093 76064 16113 72103 35335 61861 49298 01111 43326
35150 87992 69673 67593 97171 57128 53732 55633 39034 42165
75017 28694 91914 99098 99828 17259 03997 78476 13178 01003
47884 61772 50702 54922 30522 18522 78237 59383 47717 11706
87202 22946 15766 34916 17943 95101 17237 97205 96184 88689
34169 00160 80627 52689 65797 73550 73313 76964 16283 54843
31338 83384 36119 00108 95440 73377 37289 14750 37070 78649
78889 94347 07915 27328 54961 52071 12928 56998 81154 04727
00021 06790 82290 24487 66832 47724 81144 98012 89124 56971
45208 01272 43100 92872 80367 04256

14398/13436/12143/11497/10713/9351 kHz, 04-09, 1700/1710/1720/1730/1740/1750 UTC

03766 00086 53362 00075 25497 72982 21012 43186 32331 84311
84862 07834 28002 82772 38215 02562 60210 22158 54360 05383
65237 33873 05020 08527 83643 16602 40511 83567 99614 78536
47883 70868 60240 50071 33873 31880 89343 62745 90596 94069
44797 31624 19459 34276 50912 82055 92370 59111 29672 02775
20858 91953 65522 22330 62662 61045 25612 44834 16431 08895
32470 37444 43571 53794 36428 13994 47592 77929 48898 06334
13217 97463 31560 60290 60585 33612 14413 70743 57613 01587
24230 81399 53895 96839 57678 55928 05345 37909 67105

14398/13436/12143/11497/10713/9351 kHz, 04-09, 1800/1810/1820/1830/1840/1850 UTC

03160 00095 53050 99098 57004 33096 73918 34556 71434 66323
90367 21118 13713 46708 30340 13687 80837 45655 91583 13077
36525 81530 79173 92621 52311 20619 48344 18676 48030 44280
48434 01076 97363 10400 75535 04485 35500 86386 70944 95100
33042 74551 57981 29295 09290 88836 93478 08902 61607 73765
42676 70808 52657 58549 50118 03702 00178 60427 46787 36384
84750 55241 86524 27154 17888 89291 23754 03312 71171 25854
78186 94450 74710 96481 80033 61972 23549 49877 83330 63473
27140 39441 57067 74263 01603 77625 48418 38813 60281 71833
04307 75071 39598 34560 10350 77800 88026 63606

16287/14506 kHz, 24-09, 1125/1135 UTC

06931 00165 48051 93702 48379 64768 27390 60219 00114 59255
85255 82922 27229 38117 40577 16218 13116 61185 97652 55199
52611 64329 00528 86295 11869 62257 18876 68445 97037 44222
66332 62185 07384 31363 17314 99151 60628 87225 66044 63322
77403 68882 44472 57468 37254 03700 39733 84025 25100 14973
31156 59061 07117 06140 88754 57722 64369 61754 80833 86111
44882 58844 63181 55881 91922 22070 75537 95864 20811 41422
55588 25888 94140 33333 77795 83729 18757 44459 49040 09169
22522 33849 43343 82064 13076 08271 55568 00143 41608 59491
33771 98873 06402 80921 17430 19449 05700 88690 65544 14184
28161 43868 63211 83667 59383 05275 64919 72775 28333 06025
39065 20310 11713 71664 63598 11142 15600 81116 42804 83651
68001 74294 54255 61320 06640 55613 19477 13219 16900 58335
77028 29065 77513 33855 81006 77652 71636 59664 22680 07700
43355 82281 72887 35583 20425 14471 86159 33736 17322 06387
03858 24483 46885 81881 46181 53865 88611 00882 77737 02669
85795 51700 55885 70007 27996 09999 41795 51146

16287 kHz, 24-09, 1140 UTC Too weak to copy

18048/17473/16079/15858/14581 kHz, 24-09, 1200/1210/12320/1230/1240 UTC

00647 00241 61740 04108 61845 86982 73966 05623 71116 97192
36563 92589 81457 59990 93873 30043 90902 24875 41656 89162
80234 03295 41709 89450 19471 07734 53233 45162 38070 15247
05187 39053 74539 14143 67098 40587 05538 98512 71148 35041
88__1_9_671 31198 73915 38834 74277 88011 94165 75120 07036
15102 84681 74663 29008 47696 14550 39555 72289 84636 54111
33749 28804 67551 55869 92005 97508 18049 67314 92891 53286
_4504 92388 53725 06614 01050 87562 72095 67792 50616 45192
19721 5_06__0040 31033 00144 20505 64389 45530 66445 52548
01031 33248 13876 17037 01292 59307 25119 75328 81909 41324
56227 20697 01273 21834 82531 22712 30955 68048 27957 60133
42453 71761 21673 39443 34_8__4680 58762 36517 55724 71499
3118 72518 _____0343 52254 91254 78511 36688 (no further
deocde possible. Too weak and too noisy to copy)

17454/16041/15865/14494/13958 kHz, 24-09, 1300/1310/1320/1330/1340 UTC

00321 00244 82858 22405 82240 15783 69091 02725 22966 68649
17787 12992 56998 56029 35645 39426 57554 55982 66765 55077
20823 52327 32810 62271 50182 94060 84832 01760 87479 43436
43048 00772 34373 74351 66785 84926 70428 68475 08678 15024
04481 46458 40392 49931 92310 14999 57653 30772 17407 53106
29714 69005 57711 73097 96854 09211 54762 20587 72222 88178
30949 67330 15244 79528 25601 17014 78618 82646 89243 50718
68997 89078 47303 51740 50595 74363 11935 82877 69959 35182
36406 54060 84352 34372 13722 74042 43060 61274 77496 57573
30163 49840 96251 20498 84074 37150 31214 60862 24330 75296
36380 75006 41527 66687 84108 40635 21701 05970 22501 22490
97275 71884 50626 37039 51771 76887 82976 80870 65806 51557
73953 17343 05150 31669 20555 19156 92825 26805 67665 13445
43149 51072 58547 94662 98801 61399 12533 17664 50263 73085
52340 37089 38773 55005 60297 58277 99212 59212 68725 07187
54172 50342 95054 72771 01343 19036 69856 09857 46132 64952
47808 94895 38304 09056 79340 46203 13336 55963 38237 90371
64353 65311 30607 92719 99216 36863 78569 50143 71371 62276
19942 33613 58078 60478 59271 92805 56016 85774 93319 79765
91541 02675 71531 85309 25277 57444 98783 29716 75664 14093
44941 43249 20975 78353 42832 88860 19734 02334 73554 64478
40465 19712 38484 83854 45009 14194 36817 77824 49784 86533
90186 27561 62643 58470 98828 61678 93779 45296 67442 41771
38078 48853 74478 57278 17335 76692 12638 79724 17646 70409
73071 53681 12220 28840 39300 71829 70571

16319/15874/14844/14368/13921 kHz, 24-09, 1400/1410/1420/1430/1440 UTC

00568 00234 00669 70865 58492 27456 42507 03938 26966 57040
54495 30668 44421 22789 17176 61452 69018 01037 68269 20450
52803 00255 00888 35447 33805 99633 83480 49412 74140 05327
92081 88007 34373 85208 71142 52063 24719 18694 06730 00304
67190 53380 64798 33668 74948 36736 77259 51573 85949 74086
92932 98207 22656 58173 57471 03659 66937 65221 36059 58857
43974 93093 29796 21639 64957 66477 96294 59212 51646 65111
36733 50323 94306 67865 53258 99422 35455 67217 60497 98068
22374 31907 63462 00054 12393 93873 65360 76199 27736 67482
85125 59497 82633 47872 56428 74096 23583 43158 68710 08471
40441 18047 99925 20838 37352 42608 03901 54790 04914 58047
68202 99718 04723 37990 36483 12067 29631 29742 09246 71083
01116 20094 31475 84162 79984 77235 67688 46433 11436 79161
75839 92296 98506 52025 57627 04326 31980 42623 62701 69783
88871 10570 71285 69687 99279 85406 54773 44643 11388 44361
44464 93839 33911 97625 07355 20336 86570 15763 40853 60116
74919 56465 43353 25751 82207 75904 01211 52697 80352 32156
80085 87006 67040 39462 81110 90544 48808 61787 84882 94576
22461 23045 35045 66073 34697 81998 58384 00880 44670 37280
17754 16217 01770 02584 94863 32506 67216 45533 87479 23374
84194 02076 64280 79231 64275 57457 26799 94448 16514 16609
71536 24783 30879 46275 37654 51873 22420 76278 91053 00208
17520 00332 08026 43081 14401 63868 85236 64455 44597 48604
23328 03275 74306 61508 10382 20385 00111

16047/15856/14896/14379/13883 kHz, 24-09, 1500/1510/1520/1530/1540 UTC

00930 00228 95765 98035 57226 23466 70479 81425 77216 55171
48521 06792 98233 45649 53324 16329 92810 10563 32951 59457
03330 33500 89078 66963 08187 22229 71953 86906 72016 89449
33128 17967 27360 66696 92014 97740 36895 03490 67364 34269
63762 00046 05043 40696 97175 50187 15087 47233 80137 85370
52381 28441 80055 94198 19610 13638 66663 28802 89847 34997
51511 83572 09409 87766 22043 30554 79431 31537 53633 55583
79433 89320 43198 98681 95694 03283 28456 48382 69787 57999
07141 24719 06768 76644 37067 04686 37910 33160 47085 78376
31077 08093 13641 32366 82756 80188 90636 17276 18652 66621
70755 83548 93599 24554 05936 63060 85241 81373 98503 16327
85180 18280 59013 31848 27855 26792 76803 22763 50699 17356
92642 46270 84451 75255 24506 71340 75678 10832 15925 15505
12646 11180 29730 03166 87243 23591 31118 82213 80707 74005
19444 56535 34656 30757 93194 12796 49078 81792 04511 55963
03384 67872 66576 01296 73977 24484 99096 18343 00048 34595
87381 74409 65448 82997 03680 74000 88549 55847 44604 04263
95672 94589 42054 76692 97910 36106 11614 53693 82060 11710
22262 93884 06320 59960 12120 44772 44603 28433 29187 62758
24494 12775 82164 46112 86622 45034 91086 51658 27077 19194
24245 93229 37188 00247 60289 08794 25818 89882 03384 37870
12870 45403 36282 88337 12333 93495 68088 05487 70876 58907
29397 60116 26660 81844 79768 82897 12424 95941 90068 52876
66566

20235/19541/18336/17474 kHz, 25-09, 0520/0530/0540/0550 UTC
19591/18386/17444 kHz, 25-09, 0520/0530/0540 UTC

Too weak to decode
Too weak to decode

20235/19541/18336/17474 kHz, 25-09, 0520/0530/054/0550 UTC

Too weak to decode

19591/18386/17444 kHz, 25-09, 0520/0530/0540 UTC

Too weak to decode

20911/20334/19253/18616/17421 kHz, 25-09, 0610/0620/0630/0640/0650 UTC Too weak to decode
20961/20384/19293/18666/17461 kHz, 25-09, 0600/0610/0620/0630/0640 UTC Too weak to decode

20838/20018/19474/18319/17467 kHz, 25-09, 0710/0720/0730/0740/0750 UTC Too weak to decode
20888/20058/19424/18369/17447 kHz, 25-09, 0700/0710/0720/0730/0740 UTC Too weak to decode

20824/20533/19218/18322/17473 kHz, 25-09, 0810/0820/0830/0840/0850 UTC Too weak to decode
20874/20583/19268/18372/17433 kHz, 25-09, 0800/0810/0820/0830/0840 UTC Too weak to decode

17462/16211/15866/14573/13896 kHz, 25-09, 0910/0920/0930/0940/0950 UTC
17432/16251/15916/14623/13946 kHz, 25-09, 0900/0910/0920/0930/0940 UTC

00108 00149 37631 88274 44073 13559 39087 26379 37663 10745
70398 11254 65294 79955 82275 60494 93672 63045 68830 07648
33735 88165 69458 17025 77200 25064 74195 84412 48984 16385
86745 28834 75167 45356 72714 79001 15340 50310 89543 86063
11576 85067 36526 93249 00409 66740 83442 42617 23109 06797
14432 88712 22317 63984 37316 99835 51798 04511 78277 69014
89313 52999 18231 18388 60788 01412 99552 33461 88468 45782
22795 72140 81999 07513 19686 09002 93682 68423 68521 38512
63923 15962 93863 84609 61427 46615 17813 52734 63794 12597
45200 10829 05788 91322 97413 94816 91876 37141 01758 68776
86894 39161 88766 27031 81124 31099 35239 89951 47629 79444
75787 43702 33688 60179 81798 23512 25696 09180 51600 78447
48513 09372 73516 94513 25231 41097 36220 01824 09121 72974
74474 00611 98212 83894 00848 34829 02284 93316 37563 26795
66630 66706 01311 50678 54353 74413 32496 17114 99408 55917
92620 74224

19318/19114/18241/17422/16085 kHz, 25-09, 1010/1020/1030/1040/1050 UTC
19358/19064/18041/17472/16135 kHz, 25-09, 1000/1010/1020/1030/1040 UTC

00109 00160 56036 65400 85891 25079 52400 39921 73855 31315
00939 82321 42783 10768 37359 80255 26934 04970 12862 64955
03031 66141 63386 87333 37681 73781 22114 25750 41510 22388
66313 80253 76212 50552 47439 05675 03203 88980 17747 47278
45803 55880 95533 09146 23305 04674 86150 58598 21175 47571
34738 67937 55869 83310 58677 06857 46856 80728 00528 80285
33008 88560 68085 52088 65585 63608 41157 29102 68003 36103
00000 03643 36368 00106 33810 33880 13233 32565 68383 04622
04890 32587 65680 14503 04080 34457 64367 08373 66303 83431
12211 83638 36307 67611 38401 88610 58106 44665 88578 33606
88668 36068 86088 33863 64684 36851 76306 39608 03380 07493
81470 51503 06863 10053 10036 58166 00363 25228 00951 23304
43060 06123 81408 36195 08486 39362 24679 25687 22638 05334
68577 33443 06228 11675 30136 77836 44341 77377 74601 60083
60365 13186 06166 82568 32772 79748 59519 65837 85918 12669
72828 23386 56838 78786 38325 40663 82085 83086 27823 48374
66866 6540 63031

18514/17473/16097/15893/14394 kHz, 25-09, 1110/1120/1130/1140/1150 UTC
18564/17433/16047/15843/14484 kHz, 25-09, 1100/1110/1120/1130/1140 UTC

00110 00163 11419 31036 47248 15194 14329 77941 58293 33591
29939 70770 14362 83373 36320 47008 86743 02193 50692 39630
76096 10061 95874 93280 49178 33000 27641 96732 71941 69615
27522 36525 13185 86283 95023 48883 07427 35186 68244 16867
04349 47331 69078 19835 81170 45449 01546 30020 53123 70878
02090 92165 68128 15014 00924 52384 98539 25944 57655 07331
02751 84044 27189 57339 65291 88173 43780 57783 47196 16126
23963 05560 20242 78440 58907 62565 15559 62148 95481 28079
34858 50592 40496 78945 85286 67066 26157 86772 73398 43260
56463 84596 38231 67595 67882 90537 46984 71162 93862 18478
00061 36688 73850 42816 87551 67520 48069 60766 40838 05978
47360 30381 03644 38101 67335 65780 05431 09524 18459 61983
56998 86712 20669 70965 44514 88234 94576 53801 80769 46995
65435 10843 73855 01338 72108 11895 15259 13871 30414 55248
77112 77219 27945 88593 39083 28676 55909 29438 21017 57520
38621 75243 63433 63959 56484 29681 91329 73434 38629 62957

69982 06277 53324 06863 51276 33321

18258/17423/16129/15818/14531 kHz, 25-09, 1210/1220/1230/1240/1250 UTC

18048/17473/16079/15858/14581 kHz, 25-09, 1200/1210/1220/1230/1240 UTC

00111 00172 51702 55371 11063 69806 02997 46288 95128 80747
47030 45010 29024 62694 46368 21008 96197 04183 81565 36078
93417 06679 27956 97232 70652 07889 07722 13233 64238 21209
21801 18165 34997 51436 68840 60008 21390 44399 36508 83119
88322 84091 36806 76604 68469 53320 85041 08679 37297 38993
59353 47084 37200 68881 37723 33735 37254 36147 98858 86670
56287 69884 04005 52254 00116 32398 72040 75531 28321 92092
73248 14618 03122 66249 60497 66035 96212 10206 36647 32836
60002 63136 27499 12719 82635 93747 92702 47195 96038 66573
34196 96497 37328 62540 74585 46614 04975 34724 50237 24131
71434 40170 39101 42014 94294 43814 49266 19850 76540 63577
22174 80313 81592 54160 98627 64085 64917 58398 57340 39803
66661 05060 88774 83351 97327 27097 15165 37767 81137 14266
44851 16848 96590 58434 81292 71839 93068 57986 33890 43690
11097 93791 60302 56646 63312 81868 79721 55175 20761 90124
84180 41619 19844 51705 11247 65755 33049 12987 84958 11882
28956 62666 82941 22686 59136 98433 71613 75930 97332 69151
53296 40329 63959 95570 03177

17424/16151/15815/14444/13908 kHz, 25-09, 1310/1320/1330/1340/1350 UTC

17454/16041/15865/14494/13958 kHz, 25-09, 1300/1310/1320/1330/1340 UTC

00112 00181 16734 61536 71292 21228 49139 01333 95895 94663
05814 94845 70425 03757 90351 03629 93986 33593 09689 96002
50654 75873 18649 12352 21283 29165 30491 24938 11179 04451
59255 48380 60593 96493 87062 98952 31449 52298 68582 62998
93563 38391 52272 80753 42030 77094 53274 64226 04525 10984
82331 96220 57500 21732 36951 16816 80891 50796 95709 20836
33367 50651 61693 65388 64932 17034 81351 89750 31826 80689
25143 99992 96569 50870 50483 79166 79283 48839 71259 76981
95793 48361 13798 63642 29774 80539 88458 80022 02168 18254
10995 97851 81488 16492 85899 84841 20755 92414 32684 34198
04219 63160 18157 30909 44006 94725 71257 28403 99954 48310
32760 03880 15098 70270 28450 01317 41533 72237 80562 62064
52013 73115 40195 61215 04341 17957 42866 81586 02776 38746
77921 89767 65586 73278 02804 93840 14986 05913 84062 98112
93368 79845 14671 98357 47506 19026 62188 65353 29033 02193
97568 14127 09604 03279 80761 07112 26122 68472 63301 08592
77396 16992 23446 80421 88987 89577 03981 07601 60490 92950
59280 63258 36977 53025 17766 70238 24802 87458 58938 79149
95682 86702 11647 61103

16269/15824/14794/14418/13971 kHz, 25-05, 1410/1420/1430/1440/1450 UTC

16319/15874/14844/14368/13921 kHz, 25-05, 1400/1410/1420/1430/1440 UTC

00113 00184 88789 60117 50608 16780 23916 23255 33337 68371
40970 11852 89465 60308 96293 03892 07747 06267 64357 73627
01894 57615 36667 03456 79680 88934 40613 46077 00259 84600
73381 66469 74605 07016 41320 62250 09006 57562 15894 77388
14124 26585 99013 39646 04420 73702 13204 87262 39465 30187
55353 42473 61315 83623 65601 43248 70855 63806 16142 10784
77855 47250 58302 09553 98721 98834 10566 61554 67840 45900
46846 07099 55035 51285 36032 92346 25777 39570 37405 59204
64508 73562 15046 04375 88679 68521 35079 73389 93989 91008
33801 41748 50823 77739 64903 02760 59219 52345 94608 96362
98637 14504 28409 05445 31903 09835 10481 21970 17866 29140
40655 54717 19975 56578 46268 13903 40486 94454 79422 81470
96472 70853 12076 26779 10929 01180 80953 99381 93184 19329
02745 18275 99379 31435 94055 10875 20316 10126 40887 91376
19105 85069 02756 01711 86591 88827 30780 58492 88568 39481
06619 97794 73061 57980 03807 08343 22717 83828 70614 42652

96946 45087 89717 36944 81284 43854 41468 90957 24658 08078
59707 55050 98710 29607 84179 75703 82910 49297 49460 20411
01851 98930 47010 80163 00707 38680 10127

16097/15816/14846/14429/13933 kHz, 25-09, 1510/1520/1530/1540/1550 UTC
16047/15856/14896/14379/13883 kHz, 25-09, 1500/1510/1520/1530/1540 UTC

00114 00191 25657 91497 19105 45017 05277 15846 88004 32553
51434 48780 57773 46189 25782 36892 47254 84507 98681 34275
18411 40648 71991 11265 52168 95048 73007 52766 77136 32958
83225 07695 80331 07867 12773 45665 19043 01757 25394 51113
77933 57884 82513 64804 90832 73167 08076 64529 37178 53701
45437 83667 34606 96085 98292 66026 27865 96436 83747 62226
35712 07449 39842 13177 90680 81215 81926 95669 43529 06150
70079 03520 10255 76349 65830 06810 97351 44617 35971 69884
82910 87147 94383 85280 90961 56724 02140 48293 34289 61368
70374 84452 60028 17387 14260 52446 86448 52208 92287 00763
87211 54212 78828 18261 46935 67361 27348 85825 49539 94826
77607 15004 15087 60609 42455 50441 25579 23627 64315 13270
07784 63222 23951 94011 80287 56490 20514 41826 73122 56630
30418 31739 84393 65453 53225 67077 02692 59734 92191 88026
99706 55579 88916 22781 75108 98979 95141 73399 83113 04388
45848 03513 64586 18452 22071 59216 97778 30673 20108 08882
14034 92256 74142 09831 74878 61412 65847 77799 43943 19577
46923 42001 22843 67354 49756 83215 62110 23195 40197 88967
21630 56175 79589 87430 11461 88872 60210 43956 85533 22378
70629 65583 55847 16041

19541/18336/17474 kHz, 26-09, 0520/0530/0540/0550 UTC
19591/18386/17444 kHz, 26-09, 0520/0530/0540 UTC

00104 00224 22510 65048 79503 66665 78193 23066 00866 50669
32264 38518 20637 94433 53615 80605 15547 62860 03780 30660
33750 68746 55876 26685 03066 07036 16030 45880 18531 68309
88742 58189 44003 58142 81600 30375 45650 04666 67646 84858
34215 29947 04516 70333 14778 42515 54755 71339 05659 10882
88333 56687 08224 62322 47533 83358 61177 47830 55466 92392
80376 33377 17701 80384 23666 59160 11807 30711 25254 66578
76234 33115 28587 17547 68840 52627 61551 33389 68874 88019
92889 14080 81583 00421 55519 33932 68288 22584 44505 88686
40515 77929 69222 10577 57804 04584 48030 77355 99600 99566
26287 67866 28180 20625 88118 18628 67312 82538 68630 75667
55148 61648 13653 18548 56777 17060 66377 11440 66755 36277
21627 00120 47047 76589 56208 47833 35480 35655 30323 27503
13512 33562 00886 01303 43255 47900 00677 00457 60445 39066
45901 38251 71045 80502 46844 63086 82433 21842 18818 13589
61444 76855 33359 35555 51132 18812 32224 93050 02852 17173
24852 05887 64591 46819 26724 34702 55072 62812 82919 12760
78562 05035 55611 23710 55693 12151 86618 22507 38874 26634
34094 10091 90488 36857 63775 57192 08392 23733 90947 26491
13371 35673 63927 87333 51599 92273 04668 73968 66611 55732
77765 77585 92770 52835 38781 05149 35553 66538 73050 66525
47045 49624 87409 40432 34801 51104 77125 18094 82334 29957
66662 22067 13362 62464 52609 93388 04562

20911/20334/19253/18616/17421 kHz, 26-09, 0610/0620/0630/0640/0650 UTC
20961/20384/19293/18666/17461 kHz, 26-09, 0600/0610/0620/0630/0640 UTC

00205 00228 38629 27631 42548 19186 48755 77667 23398 63867
22850 83816 31655 06109 51566 67180 54550 47064 78833 86729
78807 32208 18406 90005 00525 99905 01731 33856 99921 63614
75338 65336 11078 59528 75823 42800 20992 99904 77082 75288
27036 44163 67019 82111 17432 29591 01325 80722 28000 78007
55595 76265 65408 73400 92961 11773 04449 11963 27743 88453
25822 38490 25553 94726 60709 99414 77319 10484 70428 77850
03626 20847 51196 44733 29110 76510 41548 94422 63119 37609

14461 99316 00888 84197 75006 22096 83632 58472 50714 45470
78144 08478 12729 16954 81184 27766 30678 55655 51554 73384
44284 04955 09509 87844 09783 69201 04450 80495 14099 56369
50883 19867 62707 06669 28631 72113 92159 11667 60538 72744
85129 46044 85271 01188 75228 95500 48849 42933 85540 71200
95687 56531 11634 45104 87286 48222 34533 87700 08411 42000
74803 17360 77597 64552 17459 77663 95593 33473 49605 20376
33800 18652 88882 77653 95551 07508 03888 86716 41277 25267
64294 73128 51926 56480 76922 80438 29767 99754 33486 48673
77877 88019 66677 21665 43907 69766 00386 44272 95551 33844
50313 12119 25658 38666 93915 53269 08234 66255 73966 61211
57872 58668 23325 20000 94104 45170 72966 95449 19442 83788
52888 76915 09222 80731 07084 25511 78741 75674 63277 88305
66852 61658 44405 88878 95052 00071 83113 46631 33445 98700
00552 53377 53274 73700 33670 25225 16498 58007 00405 33871
36174

20838/20018/19474/18319/17467 kHz, 26-09, 0710/0720/0730/0740/0750 UTC

20888/20058/19424/18369/17447 kHz, 26-05, 0700/0710/0720/0730/0740 UTC

00206 00238 77513 90532 98334 33726 31642 38091 96708 63101
87013 66497 39348 96839 42999 77718 26246 68821 43463 33870
57044 11910 56727 84445 99506 31148 67081 91351 01820 06820
77242 15818 74908 13935 70087 26055 50575 60634 39025 64027
29727 61744 33286 98076 80330 47465 54173 41903 12162 16752
56194 82631 24801 42724 85986 37927 48478 86304 71008 40731
22789 17135 89948 20734 41893 88350 07029 04427 78664 25076
07530 37147 90384 92015 65223 57533 40280 23663 22393 20191
87699 95083 35365 54788 71592 73552 06830 98662 32836 59030
58688 19822 42282 46385 96755 47023 49777 18015 80172 79986
89844 01929 76443 96706 16677 41592 07874 77060 22281 96948
23178 56773 13034 90598 54680 65207 69012 12775 65829 80851
31008 17376 41019 80079 49868 09487 94548 07955 02615 38988
07666 82548 10408 49840 08921 86349 93406 37844 34090 54483
61648 22442 10056 03985 84359 85591 03628 09450 66292 59576
02953 76409 13537 86247 66690 54522 08343 79269 08991 12932
47195 47157 93545 78892 00678 00499 14966 26366 11719 30236
57842 19654 72428 16992 12546 76695 01835 07775 23216 98159
66369 63225 20574 31417 73974 07466 26003 44500 55413 90318
51111 44313 26182 74057 53851 13292 33253 73626 68340 48464
37867 79345 10324 10642 88249 77198 64404 62485 84229 57299
11702 71071 30222 72760 48297 14822 23471 78097 73883 06342
89607 58648 02724 23519 93441 57409 58710 72593 92025 66853
68543 72528 96707 50980 14924 40398 47167 44210 91494 78178
15611

20824/20533/19218/18322/17473 kHz 26-09, 0810/0820/0830/0840/0850 UTC

20874/20583/19268/18372/17433 kHz, 26-09, 0800/0810/0820/0830/0840 UTC

00207 00240 52874 80019 15239 77822 37257 98815 22655 56358
18900 57003 70167 36359 06162 86770 18180 95184 06481 37723
11912 79001 24398 06161 23536 19616 45125 36638 96291 23101
40085 70687 74305 03480 11464 22219 92016 02632 78048 05110
54600 41776 44803 62638 36626 68049 89830 23123 15213 09745
73056 32991 01767 76846 93669 98453 20273 90150 31890 59649
13759 82347 15165 02988 89317 80347 20528 01585 79497 34860
91105 48301 24017 73337 15920 39019 98580 84099 06324 65086
11378 31565 02469 66022 03263 98559 25890 23481 09718 43126
17787 51408 57129 75299 07124 30499 98795 42792 43724 76401
76544 19544 15918 62870 04832 61142 15789 36508 38399 33270
33386 34529 29736 63657 10298 94140 19781 32313 98207 29089
33260 13813 43648 22789 77351 05266 04993 72315 84093 92109
26741 08014 16942 11786 03415 40817 52116 86498 19106 35224
85843 10700 86508 90844 22817 50004 73758 07297 61146 58253
10874 52161 82014 70827 10532 73579 19573 94881 84878 90413

56270 45901 21372 75007 98617 02450 80334 23949 79358 53435
38130 50311 81871 65122 15239 44043 10758 34055 55339 77199
43436 59269 07995 22261 83208 62888 29747 99030 83441 66633
26100 43335 20101 05454 95189 18143 20498 89066 27006 77908
45994 58332 97702 07503 82467 25032 30362 24589 11057 52875
59525 65173 99475 59475 23450 41256 87962 47657 72713 23861
67400 63340 88810 57081 47115 15954 71625 60869 88042 97793
05979 48363 22820 09997 09039 12187 35027 61998 84958 73335
07881 48217 23112

17462/16211/15866/14573/13896 kHz, 26-09, 0910/0920/0930/0940/0950 UTC

17432/16251/15916/14623/13946 kHz, 26-09, 0900/0910/0920/0930/0940 UTC

00208 00253 26072 70397 05245 25520 77587 39660 95388 25758
84741 82050 66136 13738 87792 88905 34519 20312 78908 40770
15447 79112 17447 82061 28598 26167 93856 86721 26806 22667
97526 66003 24313 41060 23399 69090 72976 00272 14166 69022
11346 00508 60985 01543 86057 19303 24796 14387 57321 81003
93699 90155 97451 25507 27757 69784 23112 30614 39635 99687
85181 07521 26112 53741 88428 69769 09066 32105 77980 64654
71166 86120 47947 61113 40577 01014 19157 25222 28758 08919
58317 73703 00169 46461 80704 79145 47216 34364 80114 73574
47070 35401 17213 05958 75573 83242 60247 84852 18468 10502
41647 79375 61153 10332 25250 31074 07774 38826 91296 02568
92781 48936 05273 92934 54623 34092 22983 87718 00823 03461
06965 88266 63838 43147 52626 18409 27717 61268 46825 38644
90325 77949 62209 22663 83396 74847 05297 83280 69917 98880
43374 23850 73090 36119 36965 05196 91804 44563 18937 51911
38852 12679 20104 26256 68392 14972 39482 93380 36220 32117
38049 93472 03806 00888 15441 63285 25143 85486 49041 38874
71045 58352 62590 76406 14313 65858 76746 61593 47830 52529
76314 62964 35878 58610 91318 26630 36290 93676 05332 37107
68301 20378 97420 89370 17353 26793 15730 19251 82909 05225
11842 03142 49479 04467 53899 57750 74626 05080 72946 56993
24417 13379 57469 21286 04769 58434 52566 44494 19619 54095
56142 39682 93037 84603 59848 15639 19997 11667 03094 51076
13376 44787 68558 88468 48393 37753 69207 29468 42279 44927
74335 54535 56055 81558 81163 60967 89511 29094 10671 07011
68951 10225 99957 30067 43088 66357

19318/19114/18241/17422/16085 kHz, 26-09, 1010/1020/1030/1040/1050 UTC

19358/19064/18041/17472/16135 kHz, 26-09, 1000/1010/1020/1030/1040 UTC

00209 00254 99996 12252 82696 64749 23184 65077 66451 12296
89873 20244 55057 29284 91006 34248 63495 69033 67336 88161
35405 88727 04537 74507 21653 41198 17148 23615 81571 08439
64134 30125 01978 44174 66644 38208 72734 18539 96269 95947
65985 06054 62703 84867 68962 49506 56847 44262 77781 69611
02000 92311 99383 58802 49056 10897 77850 23258 68914 62951
47282 23030 98814 48466 79750 62236 46009 25974 89855 24025
35052 94646 90971 92437 90872 49540 34780 39913 71039 48771
01736 50203 89098 03923 22558 82083 47370 78127 28492 21235
95545 53282 16398 81985 59063 15080 08459 98129 90011 19818
17370 66401 79484 56125 15140 58276 16923 83817 34846 66429
80471 80776 28046 45014 47614 54853 20090 37370 08389 29226
66256 10561 71672 30381 91802 12958 09697 24168 18546 17889
74085 63858 81013 80300 15386 64889 28689 81960 67056 86792
20658 90306 06468 82692 15417 35811 72881 56949 55533 11464
81959 02487 25411 64403 96189 82269 02551 00630 71455 06820
68995 43031 58280 88048 69901 75319 26629 77927 39744 55483
90702 25819 27439 34717 87514 50636 83687 49892 41397 08024
84596 26665 92714 19578 49113 29153 02700 50925 92595 63647
18499 52078 71846 46164 18554 05204 71836 48126 21837 94354
62142 37501 88009 92253 52808 46538 48225 79744 34221 00645
67760 26760 33452 62551 54475 50547 79991 50755 91856 35887

39545 62776 70324 13941 20246 54457 96933 24735 14362 62782
59775 58432 27433 88434 51270 37529 16761 85737 11664 80410
44120 15412 55923 40683 85590 37457 03843 25607 58675 81024
39291 49177 74275 39331 35081 45955 21455

18514/17473/16097/15893 kHz, 26-09, 1110/1120/1130/1140 UTC. No transmission at 1150z
18564/17433/16047/15843/14484 kHz, 26-09, 1100/1110/1120/1130/1140 UTC

00210 00264 85234 32428 56538 46068 78251 05328 59924 36167
36008 56182 85419 85139 42449 04043 23194 15169 90258 02454
99883 45868 91769 78912 09842 65775 36502 86313 21632 09950
50210 57277 82731 02599 26413 32649 86860 85402 70685 51654
96495 57843 95992 80499 23275 17465 33651 51341 41654 23496
85663 77317 24609 34635 52123 26458 26359 36394 01844 16347
58179 75236 80943 91817 93652 34457 50701 03966 51741 16646
07176 26651 62420 78479 75348 86911 96633 33324 18996 60085
79134 29578 28804 68481 94545 04744 03300 10871 82391 68072
14360 95851 10435 36620 59567 45541 65279 62700 19355 76125
52428 51431 99539 98813 33863 39558 48133 93961 43978 61464
87864 26554 80805 33760 67836 23649 44702 75426 34128 67996
63571 42075 73982 60356 29886 77388 28346 34867 46397 83676
62251 82315 68346 56904 09067 81557 37713 48804 90846 78733
82645 92775 18722 23386 38271 73602 46675 31740 29721 76224
29688 07480 75749 31921 64053 63011 45651 34267 54193 32682
99360 36579 71328 21277 62950 02561 52000 35192 83741 69244
04193 32836 89447 10873 32137 62905 49030 53981 26522 60276
67244 81595 09398 40546 16359 90630 80677 85357 47395 35175
83117 53319 08507 09049 11263 84751 90970 12856 52638 92927
77660 59308 50550 04983 79402 31778 68647 68876 52085 89746
72491 94236 57277 50738 61415 19437 01105 53637 43312 59561
80335 53865 08675 18888 15933 71962 20832 64315 63019 65251
36502 66865 26861 85816 09255 05452 15025 78745 42015 07739
03378 64511 84280 56213 27962 23842 90502 56092 51523 41599
37930 68328 95948 74934 52589 86713 85043 25524 92328 52210
67986 56082 06591 50245 63113 90969 57067

18048/17473/16079 kHz, 26-09, 1200/1210/1220 UTC
17423/16129/15818 kHz, 26-09, 1200/1210/1220 UTC

00211 00269 12980 48018 37931 93058 59237 65110 75843 80123
90427 18663 91195 06257 63715 58162 57705 29123 48507 81915
01929 96362 56424 97010 24211 45222 46526 28147 19158 04129
74641 26754 08579 81785 97457 36307 74985 92621 35027 14231
26026 68985 05630 38079 26844 81435 14046 67570 42308 47972
57326 10331 04573 01419 75806 97336 06006 17648 08569 04926
35511 85638 78252 29812 78134 24741 12545 30625 40610 81708
53005 96913 53455 85059 11109 64726 41247 12971 02348 14073
12809 50220 17984 61465 21543 72980 48512 38455 91826 14204
72546 60123 13836 01540 10828 68568 58072 50578 88701 11182
78234 46183 94060 47493 21673 74572 14577 53402 80180 93084
83678 83052 96904 47373 88995 51042 75963 77922 59416 16061
08427 80035 72952 29241 32394 84142 81731 71284 57471 98278
63257 38573 21996 08532 38265 73652 40983 34093 44437 13797
34426 78736 31132 50954 52805 70507 65541 44715 62139 69726
84592 45668 17834 19646 78060 25525 49911 85859 60586 44521
73182 86616 15514 29348 00362 59872 07846 35249 13636 52164
95059 81393 52279 47034 04943 92131 36650 68683 58526 99527
90987 58117 85767 53319 24667 90204 84155 02283 20130 29865
19097 85920 57504 21435 74199 90606 60962 57791 49552 43637
36114 80153 53656 20678 74389 11120 53398 40959 49715 82309
60155 17394 67156 11716 89417 91685 48406 05783 06997 86409
41190 04584 84550 71822 90372 91739 54557 83776 43258 38186
05977 96030 46121 27355 40330 78893 77061 47178 28479 69743
52179 27485 17684 11402 30492 75405 54791 80990 06221 66185
05406 49401 85518 53696 32751 71229 77345 86191 70286 56397

89409 05872 99869 42791 82912 03424 53211 97585 82987 76478
04883 15444

17454/16041/15865 kHz, 26-09, 1300/1310/1320 UTC

16151/15815/14444 kHz, 26-09, 1300/1310/1320 UTC

00212 00280 25033 69197 81114 73397 19402 17982 34622 97083
95755 84170 10130 41010 55435 05446 43320 50987 86626 19661
34734 73182 34322 69352 29467 80988 79194 99926 11159 80530
92543 88107 95344 59494 57343 92873 46867 83711 88239 34327
28857 56159 13653 76865 75688 13855 69993 87158 34324 88568
22849 95426 07719 17288 76557 79817 90155 19059 37679 94544
48741 10454 18710 44195 48484 99474 20829 16601 02111 33288
53097 62748 79847 13972 64041 74624 87872 58187 69268 19957
42795 75682 39511 74851 85818 16709 76012 37692 03103 92349
79647 02036 48803 94025 49141 61829 35627 02880 10288 11286
69472 25663 46507 22495 06606 10455 37790 49408 24599 43205
51330 29488 34596 96507 56685 71175 77603 50033 89466 75698
05751 43683 43287 08364 46093 12150 12995 23161 01213 37242
85951 74809 68619 18140 08911 22789 89132 81602 71385 15306
39926 02962 07162 22854 93387 40618 36584 15691 96730 21079
40666 34984 27905 79230 83631 61817 86018 86394 70123 28448
95313 32525 71775 79693 04834 41192 56667 35610 65467 99830
32426 25590 77971 77140 94265 78844 33165 54720 49520 77868
29975 54577 33905 74071 68529 94906 41677 07525 12929 88334
20484 66819 57238 99482 54196 56678 72482 54307 33843 58131
83643 53171 59181 99008 11222 66315 12015 40657 13881 40150
31904 77002 82205 37584 18236 08179 36719 53037 51809 39883
18939 73891 17036 33159 50629 19028 48243 35322 89190 49209
98983 00307 33615 10417 33455 26975 49996 01514 77704 92747
24000 49408 75756 73091 53323 67411 53133 18012 80757 19785
75232 01696 63719 36430 60779 75635 00196 82591 12306 80003
60168 28520 04432 35857 99568 23913 74184 25672 43955 29677
92949 97148 28883 15029 05960 61871 15547 55979 12298 59899
62834 00413 07452

16319/15874/14844 kHz, 26-09, 1400/1410/1420 UTC

15824/14794/14418 kHz, 26-09, 1400/1410/1420 UTC

00213 00283 51377 98955 14297 35330 35681 32059 76606 70833
74235 89427 58989 65831 40299 97252 51670 21758 85544 46823
54526 73030 53062 25252 04933 60700 35060 51018 60955 24574
75550 84205 37695 77725 18655 01616 22546 02187 90673 83264
72670 17289 12779 35664 15395 27597 04570 55732 48141 00132
91989 19696 47651 79243 33445 29433 95448 33425 38797 80609
87318 44047 88923 35901 47994 03673 84066 46036 00270 23330
16100 22105 88148 93614 67932 31858 05883 94133 92099 91783
63687 51895 37813 28903 10326 88171 97077 48231 83408 80739
66150 81232 50298 00119 92680 55895 74604 17012 62333 94958
51887 21359 61398 02868 21129 91265 62477 90947 66736 04605
19307 70311 51036 64107 25934 27645 32157 89419 97286 52660
44626 85304 43790 27369 36323 04770 06412 07983 59833 15395
63964 06184 54465 83340 05338 56345 95780 61631 06467 80998
78289 01956 36778 21535 82076 07546 85742 15829 22205 45837
53530 03713 42759 29261 42062 61302 06668 42276 09998 48803
52737 36566 72893 95115 71866 54217 99208 74607 27574 00689
74207 29174 29476 20530 92148 32491 83838 00378 43514 64432
58862 12469 52770 47733 77413 16851 49473 84197 18831 10708
81615 33163 37191 43084 42665 53422 20101 49383 80615 91450
12952 59069 54887 74888 69306 32014 57248 30637 44562 86179
14128 49041 18652 55740 16250 91211 50855 06886 86908 94396
35824 26239 39755 37625 87464 30829 71051 19312 53034 34249
36335 84541 86262 98833 90410 19303 43270 31564 01798 31660
67608 79078 21806 09298 24498 33935 57299 07225 43570 39665
59002 20306 69111 03113 58941 04157 03213 91259 89918 40578

30487 18550 92642 21353 19176 49953 57325 14168 33892 31209
68066 05240 32546 95438 47637 93096 17927 62656 03291 71053
01901 92284 21808 12892 13397 04536

16047/15856/14896 kHz, 26-09, 1500/1510/1520 UTC

15816/14846/14429 kHz, 26-09, 1500/1510/1520 UTC

00214 00292 18693 66942 70218 62974 56607 39860 13095 36815
27634 00214 09006 70567 74535 27546 64266 93437 74760 18674
30562 34876 57738 17553 56124 00386 61816 62328 74500 01425
90425 12793 84871 24335 00633 41650 88192 90843 35443 35740
24878 02185 17027 51800 51442 80401 37118 18179 65521 99560
17303 81014 23426 40353 40732 49728 07612 26543 19825 92670
48557 12203 68129 14078 02678 29809 12073 25837 25493 74121
40086 26125 55489 27022 59492 72019 95159 64440 48789 09473
68699 09805 72331 16803 57357 43767 96043 67857 69684 95746
32418 48745 26681 81468 30633 15739 28949 43605 11051 92975
32779 69138 80419 97564 46188 44625 66413 84038 32610 50233
14894 07579 83786 12039 47197 22097 35920 86791 27448 52978
55962 80508 33884 18809 72215 51005 00159 17100 89702 08763
53619 69521 09975 04744 85291 47339 25971 05783 47513 48501
14807 76903 75951 21851 14987 97127 01186 86020 71861 87565
46074 12280 66946 39832 51583 94761 45173 81832 29543 04384
31532 72210 15094 10518 90173 33310 68231 19830 01612 50940
30021 10830 97541 93870 85812 32453 85295 85604 40053 30669
93429 18832 73400 67171 47370 44054 33146 27550 73777 36021
92527 44259 38969 45169 37301 43115 57999 52718 76961 84106
83683 90871 41272 46581 71512 20083 57909 52524 07931 17773
50715 26977 34230 66425 68480 87862 97940 59226 72864 15731
43179 48056 59251 82204 41656 86087 53364 33811 14708 95535
40193 13298 66764 65966 84574 19367 29760 92669 19484 68463
15558 71117 22559 64250 52110 11532 29210 01220 32447 10983
47376 10348 82062 31792 67140 13227 86012 69392 51806 12161
75395 17132 77119 95506 97043 39777 28297 22047 42169 77675
88584 40747 44065 00714 63941 77541 65403 05251 87013 20217
84594 62960 28267 73104 31457 26645 31565 95895 63254 97131
34942 72498 21851 68568 46034

XPB1

19668 kHz, 01-09/02-09/08-09/09/15-09/16-09/22-09/23-09/29-09/30-09, 0500 UTC
19568 kHz, 01-09/02-09/08-09/09/15-09/16-09/22-09/23-09/29-09/30-09, 0510 UTC
18268 kHz, 01-09/02-09/08-09/09/15-09/16-09/22-09/23-09/29-09/30-09, 0520 UTC
17468 kHz, 01-09/02-09/08-09/09/15-09/16-09/22-09/23-09/29-09/30-09, 0530 UTC
16268 kHz, 01-09/02-09/08-09/09/15-09/16-09/22-09/23-09/29-09/30-09, 0540 UTC
15868 kHz, 01-09/02-09/08-09/09/15-09/16-09/22-09/23-09/29-09/30-09, 0550 UTC

20017 kHz, 02-09/05-09/09-09/12-09/16-09/19-09/23-09/26-09/30-09, 1300 UTC
19317 kHz, 02-09/05-09/09-09/12-09/16-09/19-09/23-09/26-09/30-09, 1310 UTC
18037 kHz, 02-09/05-09/09-09/12-09/16-09/19-09/23-09/26-09/30-09, 1320 UTC
17417 kHz, 02-09/05-09/09-09/12-09/16-09/19-09/23-09/26-09/30-09, 1330 UTC
16217 kHz, 02-09/05-09/09-09/12-09/16-09/19-09/23-09/26-09/30-09, 1340 UTC
15817 kHz, 02-09/05-09/09-09/12-09/16-09/19-09/23-09/26-09/30-09, 1350 UTC

Test/training transmissions

8148 kHz, 26-09, 0830 UTC. Null message
9283 kHz, 26-09, 0840 UTC. Null message
10427 kHz, 26-09, 0850 UTC. Null message
11574 kHz, 26-09, 0900 UTC. Null message
12153 kHz, 26-09, 0910 UTC. Null message
13439 kHz, 26-09, 0920 UTC. Null message

8148 kHz, 26-09, 0930 UTC. Null message
9283 kHz, 26-09, 0940 UTC. Null message
10427 kHz, 26-09, 0950 UTC. Null message
11574 kHz, 26-09, 1000 UTC. Null message
12153 kHz, 26-09, 1010 UTC. Null message
13439 kHz, 26-09, 1020 UTC. Null message

8148 kHz, 26-09, 1030 UTC. Null message
9283 kHz, 26-09, 1040 UTC. Null message
10427 kHz, 26-09, 1050 UTC. Null message
11574 kHz, 26-09, 1100 UTC. Null message
12153 kHz, 26-09, 1110 UTC. Null message
13439 kHz, 26-09, 1120 UTC. Null message

X--

16127 kHz, 18-09, 1310 UTC, MFSK-13/MFSK-21
8172 kHz, 18-09, 1423 UTC, MFSK-13/MFSK-21
16153 kHz, 19-09, 1116 UTC, MFSK-13/MFSK-21
9057 kHz, 30-09, 1407 UTC, MFSK-13/MFSK-21
8109 kHz, 30-09, 1411 UTC, MFSK-13/MFSK-21
7419 kHz, 30-09, 1414 UTC, MFSK-13/MFSK-21

X06

10165 kHz, 09-09, 1326 UTC, MFSK-6	123456 (R1h40m)
12100 kHz, 10-09, 1053 UTC, MFSK-6	123456 (R1h24m)
12100 kHz, 11-09, 0452 UTC, MFSK-6	123456 (R1h43m)
18375 kHz, 13-09, 1630 UTC, MKSK-6	123456
12100 kHz, 15-09, 0448 UTC, MFSK-6	123456 (R1h34m)
9230 kHz, 16-09, 1002 UTC, MKSK-6	123456
10240 kHz, 16-09, 1031 UTC, MKSK-6	123456
12100 kHz, 16-09, 1149 UTC, MFSK-6	123456 (R9m)
16190 kHz, 16-09, 1705 UTC, MFSK-6	123456 (R32m)
12100 kHz, 17-09, 1138 UTC, MFSK-6	654321 (R30m)
11090 kHz, 17-09, 1208 UTC, MFSK-6	654321 (R1h03m)
20170 kHz, 17-09, 1554 UTC, MFSK-6	654321 (R36m)
20170 kHz, 19-09, 1629 UTC, MFSK-6	123456 (R30m)
9230 kHz, 20-09, 1030 UTC, MFSK-6	123456
11070 kHz, 26-09, 0751 UTC, CW/MKSF-6	Dash (R23m30s) then MFSK-6: 111666 (R20s)

DIPLOMATIC STATIONS

Diplomatic stations: Bulgaria

14786 kHz, 16-09, 1023 UTC, RFSM-8000
17440 kHz, 16-09, 1225 UTC, RFSM-8000
18035 kHz, 16-09, 1225 UTC, RFSM-8000
09375 kHz, 18-09, 0720 UTC, RFSM-8000
14755 kHz, 18-09, 0817 UTC, RFSM-8000
14786 kHz, 18-09, 1023 UTC, RFSM-8000
17440 kHz, 18-09, 1225 UTC, RFSM-8000
18035 kHz, 18-09, 1225 UTC, RFSM-8000
18455 kHz, 18-09, 1255 UTC, RFSM-8000
14755 kHz, 19-09, 0824 UTC, RFSM-8000
14786 kHz, 19-09, 0846 UTC, RFSM-8000
17440 kHz, 19-09, 0841 UTC, RFSM-8000
14755 kHz, 24-09, 0826 UTC, RFSM-8000
14786 kHz, 24-09, 1023 UTC, RFSM-8000
17440 kHz, 24-09, 1222 UTC, RFSM-8000

18455 kHz, 24-09, 1258 UTC, RFSM-8000
 14755 kHz, 26-09, 0822 UTC, RFSM-8000
 14786 kHz, 26-09, 1023 UTC, RFSM-8000
 17440 kHz, 26-09, 1222 UTC, RFSM-8000
 18455 kHz, 26-09, 1253 UTC, RFSM-8000
 14755 kHz, 30-09, 0830 UTC, RFSM-8000
 18455 kHz, 30-09, 1258 UTC, RFSM-8000

Diplomatic stations: Egypt

18051.7 kHz, 15-09, 1340 UTC, SITOR-A 100/170	MFA Cairo wkg RCVB: Egyptian embassy Washington
18050.0 kHz, 15-09, 1347 UTC, CODAN	99904: MFA Cairo wkg 66601: Egyptian embassy Washington
18051.7 kHz, 15-09, 1350 UTC, SITOR-A 100/170	MFA Cairo wkg RCVB: Egyptian embassy Washington. QSY to 20035 kHz (HOKDS ODS 53002+?HJ -nothing heard there)
18051.7 kHz, 15-09, 1353 UTC, SITOR-A 100/170	MFA Cairo wkg RCVB: Egyptian embassy Washington. (KY KY RKS+?9 788 YKZK KYOH RGK KUXD GQFY RKS KY)
18050.0 kHz, 15-09, 1354 UTC, CODAN	99904: MFA Cairo wkg 66601: Egyptian embassy Washington
18051.7 kHz, 15-09, 1359 UTC, SITOR-A 100/170	MFA Cairo closing the link with RCVB: Egyptian embassy Washington
19667.7 kHz, 29-09, 1350 UTC, SITOR-A 100/170	Unid Egyptian embassy clg SSTO: MFA Cairo

Diplomatic stations: North Korea

14300 kHz, 16-09, 1205 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Rome wkg DPRK embassy Moscow
14300 kHz, 16-09, 1209 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Berlin
14300 kHz, 16-09, 1228 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Vienna
14300 kHz, 19-09, 0740 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Berlin
12800 kHz, 19-09, 0806 UTC, DPRK-ARQ 600/600 LSB	Unid DPRK embassy wkg DPRK embassy Moscow
14820 kHz, 24-09, 0634 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Rome
14200 kHz, 24-09, 0653 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Prague
14300 kHz, 24-09, 0657 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Vienna
14300 kHz, 24-09, 0726 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Berlin
15500 kHz, 25-09, 0812 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Bucharest
14820 kHz, 25-09, 1253 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Rome
14300 kHz, 25-09, 1335 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Sofia
14300 kHz, 26-09, 0705 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Vienna. Data + chat: 1RT OK SK
14120 kHz, 26-09, 0714 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Warsaw wkg DPRK embassy Moscow. Data + chat: 1RT OK SK CQ 13120 kHz
13120 kHz, 26-09, 0716 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Warsaw. Data + chat: 2RT OK SK
15500 kHz, 26-09, 0802 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Buchares. Data + chat: 2RT OK SK
16252 kHz, 27-09, 0703 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
16252 kHz, 27-09, 0707 UTC, DPRK-ARQ 1200/600 LSB	DPRK embassy Rome wkg DPRK embassy Moscow
14300 kHz, 27-09, 0732 UTC, DPRK-ARQ 1200/600 LSB	DPRK embassy Moscow wkg DPRK embassy Warsaw
15666 kHz, 27-09, 0738 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Berlin
14820 kHz, 27-09, 1231 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Rome
14820 kHz, 27-09, 1255 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Rome
16252 kHz, 27-09, 1257 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
16252 kHz, 27-09, 1337 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva. Opchat: OK SK and two msgs #3091 354 groups and #3092 136 groups
14820 kHz, 27-09, 1348 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Rome
14650 kHz, 27-09, 1417 UTC, DPRK-ARQ 1200/600 LSB	DPRK embassy Rome wkg DPRK embassy Moscow
14820 kHz, 27-09, 1414 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Rome. Probably a spur of 16252 kHz
14444 kHz, 27-09, 1415 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Rome. Probably a spur of 16252 kHz
16252 kHz, 27-09, 1414 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Rome
16252 kHz, 27-09, 1511 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
14300 kHz, 29-09, 0657 UTC, DPRK-ARQ 600/600 LSB	Unid DPRK embassy sends 3 messages to DPRK embassy Moscow

Message 3096, 144 groups

06258 03307 81903 98721 20063 05973 57563 72273 78669 07160
18722 43085 57855 01429 82670 54147 90095 27801 02850 66504
40607 76393 46478 10722 72243 42799 17020 77493 00185 00726
56178 58764 43180 42483 34899 39177 21711 48977 37072 39760
27987 02020 71808 34173 34861 27084 99212 81063 55303 76113
57123 46152 52547 68466 97077 90424 43086 30662 00858 87287
79794 92467 35829 05279 16456 58830 93611 56076 69695 58602
62676 34071 71703 79439 54132 14523 17342 22771 11578 55231
81735 28880 43709 65808 92197 92734 48887 93296 07695 75026
32668 16795 04206 01315 05169 08954 50167 67476 60020 17267
13351 75114 39604 74339 67869 65769 60191 41182 35413 79427
78606 11193 35733 48742 69924 84657 38015 41335 21374 11293
57161 80191 49941 17372 83649 84445 68397 22059 31273 88231
94956 07451 96449 48374 40485 93296 00078 37243 70498 54642
25970 31669 12053 41437

Message 3099, 312 groups

32823 77033 48977 31400 57329 70060 34819 04561 07632 83612
91380 24755 81717 71066 66371 88288 72177 18459 62266 92970
08218 01788 71081 84367 08289 81544 68149 57368 01841 78725
95499 06313 05115 52447 34677 22892 05424 54504 24589 16209
85448 36019 43541 89040 27339 56396 50949 25494 95646 83105
18713 17194 67866 97309 77284 60191 93937 34389 34035 25244
83815 79273 18934 43356 14661 52904 12630 41937 25419 17402
35941 32100 42230 02238 18251 36924 33345 11570 53762 74290
09625 59894 89925 32548 16182 82316 44098 25080 75028 21883
79328 00507 28772 49431 76234 20195 26022 73759 61700 51859
00392 87279 11670 35727 02409 91517 25167 47518 44135 84496
40659 17907 94064 74525 57131 30921 93426 20666 86790 81132
27894 45866 91989 91430 15653 29113 09726 76688 15468 22731
52758 88389 66460 38398 79417 45944 51434 55376 78790 65893
54900 63323 26706 82393 82774 74461 25719 07966 03246 05680
70402 45173 17180 49385 89693 13546 96224 62171 84979 71840
12732 25163 45129 96884 76033 64060 23694 69133 00663 10402
44027 49659 41926 77109 39887 80938 78496 70460 87963 96954
66384 37903 74992 80038 02609 52333 68587 38326 56880 36400
44358 98776 79232 48537 95279 87584 10695 51435 24313 33264
96364 17317 45841 05199 42169 75171 97855 62586 50013 18200
18608 89993 06550 96572 19824 75606 44136 83440 73119 57416
52627 71575 68529 79526 28405 11320 56467 98053 45106 63325
80062 60296 31602 81776 74928 21176 43363 70291 25233 33313
13224 04059 80600 88545 72260 61016 35802 80369 13992 52578
24254 49847 83857 84754 56530 48960 96306 96033 38318 12031
84710 11890 29348 01706 21966 16372 36306 49411 66227 02801
64515 25281 15487 36005 15311 45529 28334 98085 67030 86383
22079 51363 13562 53633 46804 59485 81072 30784 20742 27765
03520 14629 23999 55691 43662 88846 04644 80527 59993 59135
32110 36175 86193 83037 36515 40058 02814 99555 27855 28783
84927 33972

Message 3101, 101 groups

42632 78443 52267 53371 66427 89006 75569 51905 16085 69724
10370 26221 38023 38033 32068 89696 19630 74161 72998 22581
41777 51317 98815 65897 50159 55207 20815 05140 39016 65633
11772 22541 31050 75305 47287 54667 46551 20311 25713 80474
79211 21130 21902 18659 37426 57737 97332 60009 62344 31655
96405 45631 21741 55634 83026 83542 38633 51451 73280 44478
27548 91092 78678 97199 61998 17992 46667 16171 60504 70801
97546 46135 34131 51347 44677 63826 30242 41901 38849 00197
17869 38142 11620 25802 88739 41009 12001 14839 89975 60585
73970 67676 10424 54734 55347 81343 52991 20655 10848 23915
04755

14300 kHz, 29-09, 0700 UTC, DPRK-ARQ 600/600 LSB
15500 kHz, 29-09, 0822 UTC, DPRK-ARQ 600/600 LSB
12050 kHz, 29-09, 0822 UTC, DPRK-ARQ 600/600 LSB

DPRK embassy Rome wkg DPRK embassy Moscow
DPRK embassy Moscow wkg DPRK embassy Bucarest
DPRK embassy Bucharest wkg DPRK embassy Moscow

16252 kHz, 29-09, 0650 UTC, DPRK-ARQ 600/600 LSB

DPRK embassy Moscow msg to DPRK Permanent Mission to the UN,
Geneva
Message 3096, 144 groups
06258 03307 81903 98721 20063 05973 57563 72273 78669 07160
18722 43085 57855 01429 82670 54147 90095 27801 02850 66504
40607 76393 46478 10722 72243 42799 17020 77493 00185 00726
56178 58764 43180 42483 34899 39177 21711 48977 37072 39760
27987 02020 71808 34173 34861 27084 99212 81063 55303 76113
57123 46152 52547 68466 97077 90424 43086 30662 00858 87287
79794 92467 35829 05279 16456 58830 93611 56076 69695 58602
62676 34071 71703 79439 54132 14523 17342 22771 11578 55231
81735 28880 43709 65808 92197 92734 48887 93296 07695 75026
32668 16795 04206 01315 05169 08954 50167 67476 60020 17267
13351 75114 39604 74339 67869 65769 60191 41182 35413 79427
78606 11193 35733 48742 69924 84657 38015 41335 21374 11293
57161 80191 49941 17372 83649 84445 68397 22059 31273 88231
94956 07451 96449 48374 40485 93296 00078 37243 70498 54642
25970 31669 12053 41437

Diplomatic stations: Russia

13401 kHz, 02-09, 0827 UTC, MFSK-6
18523 kHz, 02-09, 0900 UTC, MFSK-6
20374 kHz, 03-09, 1229 UTC, MFSK-6
18575 kHz, 04-09, 1407 UTC, MFSK-6
16117 kHz, 08-09, 0954 UTC, MFSK-6
13420 kHz, 09-09, 0755 UTC, Serdolik v2
10767 kHz, 09-09, 0808 UTC, MFSK-6
13420 kHz, 09-09, 0814 UTC, MFSK-6
13420 kHz, 09-09, 0756 UTC, Serdolik v2
17523 kHz, 09-09, 0806 UTC, MFSK-6
11156 kHz, 12-09, 0644 UTC, Serdolik v2
11158 kHz, 12-09, 0645 UTC, Serdolik v2
11155 kHz, 12-09, 0654 UTC, MFSK-6
9357 kHz, 12-09, 0820 UTC, MFSK-66
9357 kHz, 12-09, 0830 UTC, MFSK-66
10431 kHz, 12-09, 0829 UTC, MFSK-66
10653 kHz, 12-09, 0835 UTC, MFSK-6
16007 kHz, 14-09, 0924 UTC, MFSK-6
15810 kHz, 14-09, 1032 UTC, MFSK-6
13395 kHz, 15-09, 0841 UTC, MFSK-6
13400 kHz, 16-09, 0822 UTC, MFSK-66
13401 kHz, 16-09, 0836 UTC, MFSK-6
18245 kHz, 17-09, 1236 UTC, MFSK-6
16315 kHz, 18-09, 1420 UTC, Serdolik v2
16315 kHz, 18-09, 1424 UTC, Serdolik v2
16313 kHz, 18-09, 1430 UTC, Serdolik v2
16315 kHz, 18-09, 1432 UTC, Serdolik v2
16313 kHz, 18-09, 1433 UTC, Serdolik v2
16313 kHz, 18-09, 1449 UTC, Serdolik v2
17468 kHz, 18-09, 1525 UTC, MFSK-6

MFA Moscow wkg 154263: Russian embassy Rome
MFA Moscow wkg 325614: Russian embassy Nairobi
MFA Moscow wkg 231654: Russian embassy Abuja
MFA Moscow clg 352416: Russian embassy Dar es Salaam
MFA Moscow clg 463125: Russian embassy Rabat
Russian diplo
MFA Moscow clg 534216: Russian embassy Baghdad
MFA Moscow clg 534216: Russian embassy Baghdad
Russian diplo
MFA Moscow clg 542136: Russian embassy Beijing
Russian diplo. Selcal
Russian diplo
MFA Moscow clg 341265: Unid embassy
Russian diplo
Russian diplo
Russian diplo
MFA Moscow clg 356412: Russian embassy Berlin
MFA Moscow clg 261453: Russian embassy Cairo
MFA Moscow clg 145632: Russian embassy Algiers
MFA Moscow clg 532614: Russian embassy Paris
Russian diplo
MFA Moscow clg 154263: Russian embassy Rome
MFA Moscow clg 231654: Russian embassy Abuja
Russian diplo. Selcal
Russian diplo
Russian diplo. Test
Russian diplo. Selcal
Russian diplo. Test
Russian diplo
MFA Moscow clg 241563: Russian Consulate General Karachi (changed to Harare
at 1526z)
MFA Moscow clg 436512: Russian embassy Harare
MFA Moscow clg 352416: Russian embassy Dar es Salaam
MFA Moscow clg 314265: Russian embassy Antananarivo
MFA Moscow clg 645321: Russian Consulate General Ho Chi Minh City
Russian diplo

17468 kHz, 18-09, 1526 UTC, MFSK-6
16132 kHz, 18-09, 1443 UTC, MFSK-6
19511 kHz, 18-09, 0700 UTC, MFSK-6
20837 kHz, 18-09, 0935 UTC, MFSK-6
16112 kHz, 18-09, 1436 UTC, Serdolik v2

18324 kHz, 19-09, 1004 UTC, Serdolik v2	Russian diplo. Selcal
18322 kHz, 19-09, 1007 UTC, Serdolik v2	Russian diplo
12194 kHz, 19-09, 1016 UTC, MFSK-6	MFA Moscow clg 625413: Russian embassy Tel Aviv
17470 kHz, 23-09, 1018 UTC, MFSK-6	MFA Moscow clg 216354: Russian Consulate General Chennai
20815 kHz, 23-09, 1013 UTC, Serdolik v2	Russian diplo
17470 kHz, 23-09, 1018 UTC, MFSK-6	MFA Moscow clg 216354: Russian Consulate General Chennai
20813 kHz, 23-09, 1025 UTC, MFSK-6	MFA Moscow clg 216354: Russian Consulate General Chennai
20815 kHz, 23-09, 1038 UTC, Serdolik v2	Russian diplo
9061 kHz, 24-09, 0744 UTC, MFSK-6	MFA Moscow clg 412356: Russian embassy Budapest
11166 kHz, 24-09, 0754 UTC, MFSK-66	Russian diplo
10239 kHz, 24-09, 0756 UTC, MFSK-66	Russian diplo
18177 kHz, 24-09, 0800 UTC, MFSK-6	MFA Moscow clg 164253: Russian embassy Addis Ababa
11152 kHz, 24-09, 0805 UTC, Serdolik v2	Russian diplo. Selcal
13419 kHz, 24-09, 0815 UTC, MFSK-6	MFA Moscow clg 465132: Russian embassy Sofia
11561 kHz, 24-09, 0821 UTC, MFSK-6	MFA Moscow clg 263145: Russian embassy Prague
18245 kHz, 24-09, 0846 UTC, MFSK-6	MFA Moscow clg 134265: Russian embassy Tunis
16153 kHz, 25-09, 0820 UTC, MFSK-6	MFA Moscow clg 153624: Russian embassy Damascus
10653 kHz, 26-09, 0826 UTC, MFSK-6	MFA Moscow clg 356412: Russian embassy Berlin
20605 kHz, 26-09, 1003 UTC, MFSK-6	MFA Moscow clg 256134: Russian embassy Abidjan
17430 kHz, 28-09, 1027 UTC, MFSK-6	MFA Moscow clg 145632: Russian embassy Algiers

UTILITY ROUND-UP

Unid stations

18908 kHz, 18-09, 1135 UTC, MFSK-11. Unid station

4268 kHz, 04-09, 2209 UTC, cw, i.p. Heard by JPL on A websdr in Thailand.

X XVA F X F AS FF XF VA AS FXAF F
 F XXX AS F AS X FXASFF FXX AS AS XVA XX
 F F XX AS XVA FFAS F F AS XX AS AS X ASFF
 AS XX F FFFX FX X AS X X FAS F X X FVA AS VA XASFX
 XXAS X FFAS XASFXAS AS X X XVA XX X X XVA
 AS X AS XXXVA ASF XX F AS X FAS FASF XAS X F
 X AS AS F AS XASFX F FX X FX X

Unid station, logged by Jbo. Besides the callsign, nothing else was sent. The frequency is sometimes used by Russian military station RGT77.

4621 kHz, 07-09, 0255-0256 UTC, CW RQIOB RQIOB RQIOB RQIOB

4621 kHz, 07-09, 0319-0320 UTC, CW RQIOB RQIOB RQIOB RQIOB

The following unid, logged by PY, is probably a pirate station. Similar transmissions were heard in the past on 6911 kHz and associated frequencies and on popular Russian-Ukrainian radio war frequencies.

6844.5 kHz, 05-09, 1024 UTC, USB
 6844.5 kHz, 05-09, 1026 UTC, USB
 6928.5 kHz, 05-09, 1028 UTC, USB
 7620.0 kHz, 05-09, 1041 UTC, USB
 7624.5 kHz, 05-09, 1043 UTC, USB
 8074.5 kHz, 05-09, 1047 UTC, USB
 8143.5 kHz, 05-09, 1049 UTC, USB
 8185.5 kHz, 05-09, 1051 UTC, USB



Full message compilation

Looped transmission, turning up for one minute before shutting down, then reappearing on a different frequency. Obvious text-to-speech female voice. Transcript:

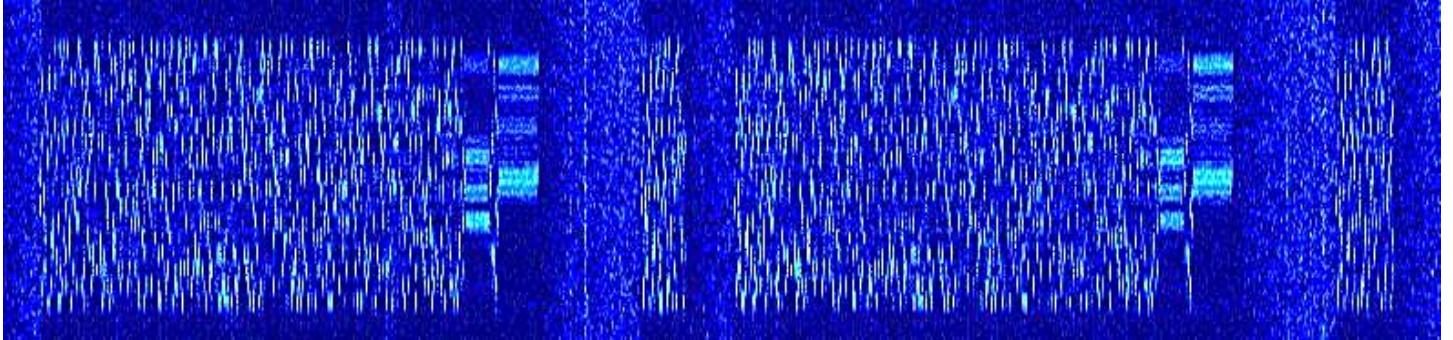
"Hello, this is electronic warfare calling. We are jamming your frequency. You might experience strange phenomena in your communication. We can produce various types of jamming signals. Now we will play a few

examples of our jamming signals. White noise: [white noise], Random tones: [DTMF tones: 35328766429273273, tone swiping up then down] We can even do recording and playback, recording and playback, recording and playback. We have no social life. We work 24/7. Resistance is futile. Your ship is going down. We're jamming. I wanna jam it with you. We're jamming, jamming, and I hope you like jamming too. ["Jamming" song by Bob Marley]"

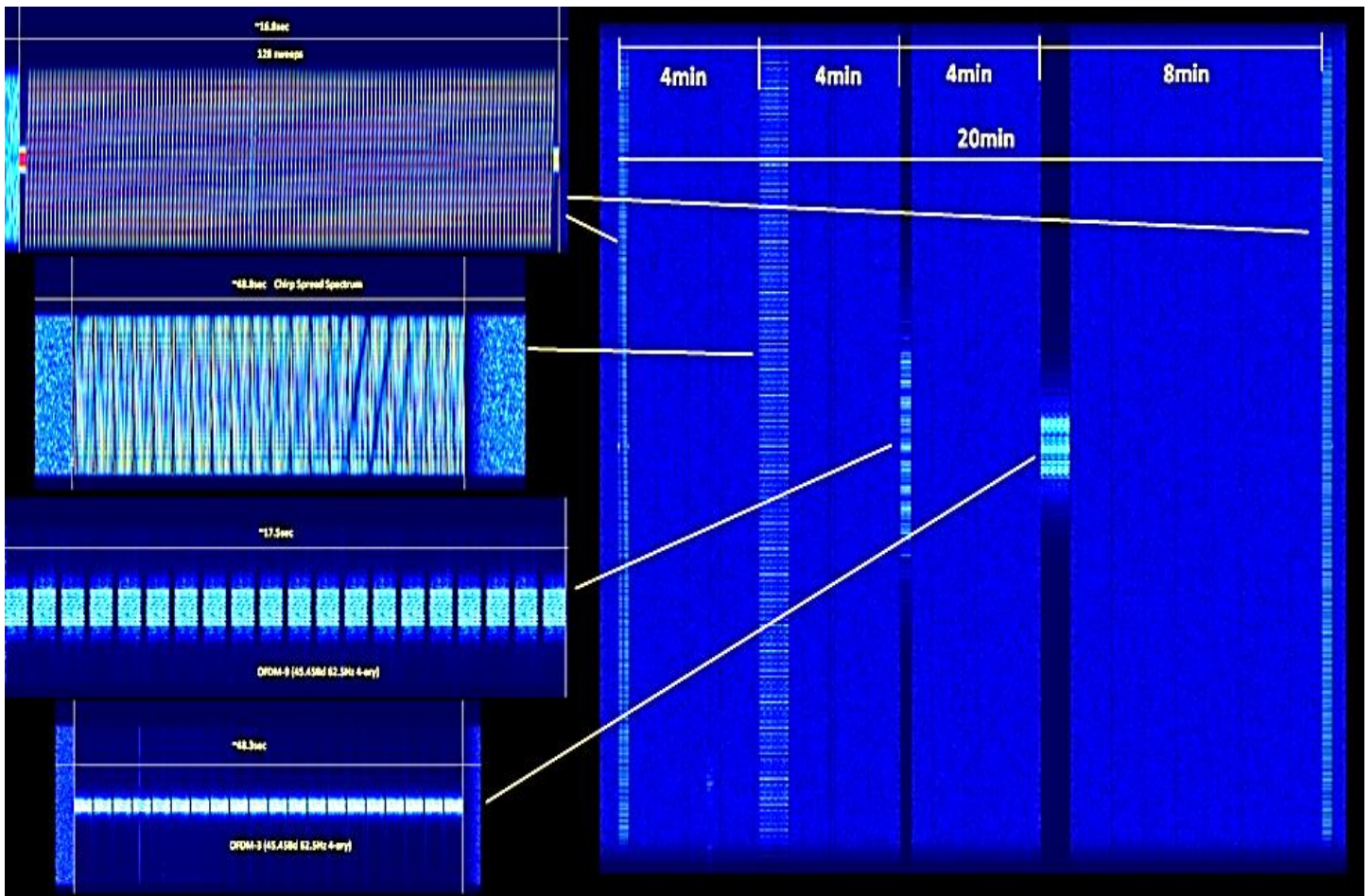


Unid Russian station

10320 kHz, 11-09, 1512 UTC, MFSK-17/125Bd/125Hz



Linkz noticed suspicious activity on this frequency for several days. He says: *I believe it's coming from Asia. Every 20 minutes, a cycle of four digital experiments is emitted. Everything is described in the following diagram. I've also included a shortened recording made from Thailand. 20170 kHz*



Hybrid tests from Asia. Log, image and recording by linkz.

RUSSIAN MILITARY TRANSCRIPTS

Morse transmissions

Russian Military morse traffic

All logged by TJ.

7657, 9046.5, 9346, 12741 kHz, 02-09, 0655 UTC, FSK CW RDL 03886 48189 k

9068, 9346 kHz, 03-09, 0625 UTC, FSK CW RDL 00622 78999 k

9068, 9346 kHz, 03-09, 0620 UTC, FSK CW RDL 00622 78999 k

7657//17452 kHz, 09-09, 0602 UTC, FSK CW

RDL RDL RDL

22222 66403 25918 83896 83896 53827 14926 75184 25265 49362
69907 66270 47128 54026 05490 01676 16053 76883 47232 73488
34118 83283 02961 39389 90256 31405 74308 82340 18920 44145
61404 59589 39449 51082 97007 38926 44096 78069 59931 69899
00490 01408 65856 31655 0972169716 11988 09047 k

6346 kHz, 10-09, 0628 UTC, FSK CW. Message to collective call RLO.

XXX XXX RLO RLO WINTOBAR 6904 = 3326 = 3 k

15620 kHz, 11-09, 0602 UTC, FSK CW

RDL 44023 28958 k

RDL 22200 29955 k

6752 kHz, 30-09, 1430 UTC S (R 5min). Standard alert for following traffic

6743 kHz, 28-09, 1230 UTC T (dash) likely Russian but not confirmed

Digital transmissions

9224 kHz, 19-09 1727 UTC, T600

Sync 1EB41EB2952

Session Key: 2C 25 1A 46 58 23 19 51 16 2A 0B 61 07 1A 4A 2A 4C 52 1C 51 2A 61 19 07 07 62

52 16 0E 4A 2A 2C 0B 26 46 54 23 70 4A 1A 26 26
15 54 26 2C 25 0E 4A 0B 25 52 52 58 54 70 54 13
46 32 2A 32 4A 26 26 32 19 34 68 52 23 2C 13 61
26 13 2A 2C 23 64 61 64 52 70 58 70 1A 25 54 52
19 43 25 43 70 58 61 0E 1A 61 2A 07 38 0E 4A 68
0B 70 58 16 16 46 61 54 2A 1C 46 1A 64 32 38 51
61 0B 52 16 32 68 31 68 62 15 26 4C 31 07 38 52
15 1A 54 0D 52 16 0B 31 0B 25 31 61 52 0D 1C 4A
19 07 0D 70 38 1C 26 64 25 15 32 19 26 32 07 1A
58 1C 34 13 19 62 62 38 2C 23 16 54 70 4C 58 32
64 2A 1A 38 64 1A 0E 4A 26 64 1A 52 4C 16 2C 16
0D 2C 25 13 64 31 26 68 32 32 54 54 46 32 16 07
52 46 1C 19 54 07 0E 38 0E 68 4C 58 4C 43 1A 62
2A 0D 31 1C 46 13 15 32 46 13 1C 43 13 62 0E 70
2C 52 52 13 07 32 38 52 61 68 58 0B 32 64 19 43
26 15 4A 07 4A 2A 62 <EOM><EOM><EOM>

9224 kHz, 19-09 1728 UTC, T600

Sync 1EB41EB2952

Session Key: 2C 13 62 46 68 25 25 4C 25 07 34 52 2A 68 31 52 1C 0E 64 70 62 51 38 34 32

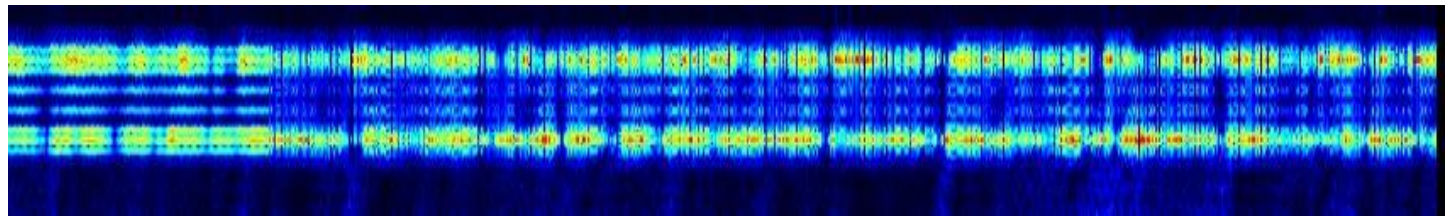
58 0B 54 19 52 58 62 34 07 52 58 23 52 58 31 64
58 4A 23 32 34 2A 34 51 31 19 38 07 4A 1A 52 25
43 62 31 64 13 0E 70 31 64 4A 0E 23 43 25 2A 61
54 38 70 38 4A 61 54 58 07 0E 0D 2A 13 46 68 51
1A 0D 23 61 46 52 25 1C 15 2C 2C 31 0E 34 46 16
58 25 64 0B 68 31 13 43 15 31 4A 43 4C 61 52 4A
13 4C 62 61 32 07 54 70 58 61 2C 13 62 1A 68 70

46 13 51 19 31 61 1A 58 38 58 2C 54 4C 07 52 2C
52 62 34 46 19 2A 13 0B 68 61 31 70 0B 0E 64 19
2A 26 2A 46 31 0D 0E 54 4C 15 52 32 54 0D 1A 13
2C 38 61 1C 52 32 31 68 07 38 16 1A 38 43 68 38
58 1A 16 15 61 2C 15 70 2C 0E <EOM><EOM><EOM>

9224 kHz, 19-09 1728 UTC, T600

Sync 1EB41EB2952

Session Key: 15 23 26 07 58 32 1A 52 23 0E 52 4C 31 46 1C 68 1C 2A 43 46 2C 32 43 19 52
26 2A 64 0D 0E 07 0E 32 23 61 51 2A 31 2A 19 19
46 54 23 34 62 15 2A 4A 62 13 46 2C 1C 46 31 61
25 07 23 2A 1A 70 0B 16 0E 2C 26 58 58 58 19 61
0B 19 61 4A 58 0B 16 1A 43 51 52 0D 25 19 15 23
07 4A 38 16 2C 4C 15 0D 62 62 1C 58 07 16 43 2C
31 15 32 70 31 23 26 0B 52 2A 34 32 32 68 51 2A
51 54 15 32 0D 38 0E 51 1C 61 13 62 54 0D 54 13
31 51 1A 2A 16 4A 4A 38 15 31 68 4C 07 26 58 61
19 68 58 1A 43 1C 38 4C 31 52 2C 15 1C 46 38 62
15 31 07 34 0B 2C 68 34 2C 64 26 13 4A 43 52 46
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9224 kHz, 19-09 1731 UTC, T600

Sync 1EB41EB2952

Session Key: 70 0E 26 31 58 70 61 58 61 51 52 31 16 4A 51 34 31 1A 26 26 0E 16 16 61 16
54 23 38 25 0E 51 62 26 4C 31 0B 31 62 31 54 34
0E 0D 61 54 61 61 58 31 4C 43 2A 07 19 13 68 4C
51 0B 25 <EOM><EOM><EOM>

9224 kHz, 19-09 1733 UTC, T600

Sync 1EB41EB2952

Session Key: 19 32 23 0B 34 1A 2C 0E 32 62 58 13 68 4C 1A 38 46 51 2C 52 [20] 2C 19 16 38
1A 43 52 58 25 38 61 0E 31 64 26 1C 32 4C 0B 4C
0D 0B 23 13 62 23 46 15 43 2A 0D 52 0B 0B 15 4C
26 15 26 23 07 46 31 38 23 64 13 0B 61 26 15 0D
19 07 43 0E 1A 07 26 07 32 2A 13 68 64 61 61 0D
07 32 26 4C 31 07 64 38 13 13 2C 58 13 51 51 16
43 1A 4C 4C 61 46 51 0E 2A 46 0E 34 32 15 1A 15
19 61 1A 0D 26 38 64 1C 19 32 1C 16 26 <EOM><EOM><EOM>

9224 kHz, 19-09 1734 UTC, T600

Sync 1EB41EB2952

Session Key: 19 32 23 0B 34 1A 2C 0E 32 62 58 13 68 4C 1A 38 46 51 2C 52 68 2C 19 16 38
1A 43 52 58 25 38 61 0E 31 64 26 1C 32 4C 0B 4C
0D 0B 23 13 62 23 46 15 43 2A 0D 52 0B 0B 15 4C
26 15 26 23 07 46 31 38 23 64 13 0B 61 26 15 0D
19 07 43 0E 1A 07 26 07 32 2A 13 68 64 61 61 0D
07 32 26 4C 31 07 64 38 13 13 2C 58 13 51 51 16
43 1A 4C 4C 61 46 51 0E 2A 46 0E 34 32 15 1A 15
19 61 1A 0D 26 38 64 1C 19 32 1C 16 26 <EOM><EOM><EOM>

9224 kHz, 19-09 1734 UTC, T600

Sync 1EB41EB2952

Session Key: 4A 1C 46 16 32 64 16 68 16 16 0E 58 26 1A 43 2A 0B 0B 07 51 23 16 19 61 54
70 0D 25 43 13 19 38 34 68 23 1C 58 64 46 0B 0D
31 62 0B 51 70 07 0D 15 52 1A 13 1C 1C 4C 0B 52
1C 51 0D 43 2A 70 07 19 54 15 23 52 0E 19 61 1C
0B 31 19 2A 2C 13 0D 61 32 46 0D 2C 0B 52 16 07
0E 58 70 2C 16 4A 38 25 26 4C 68 0D 2C 07 13 4C
15 38 31 25 0B 43 0E 07 1C 0D 64 15 07 1C 0D 54
46 19 34 64 25 70 13 64 4A 43 68 25 4C 64 43 4C
2A 1A 62 34 19 70 0E 0D 0D 46 51 07 38 0A 38 4A
2A 4A 68 4A 32 25 34 13 25 16 34 46 32 62 51 58
68 1A 0D 0B 61 52 2A 1C 34 68 32 0E 38 46 32 38

19 54 0E 1C 34 61 34 23 1C 4C 2C 0E 46 4A 25 19
62 64 26 16 0B 31 13 52 4C 43 4A 70 54 38 43 4C
62 46 31 07 0B 1A 52 0B 54 2A 46 61 64 0E 62 31
26 34 61 25 64 34 34 13 1C 54 43 15 31 58 70 15
2C 52 15 62 0E 52 58 26 2A 64 32 25 1A 43 62 43
16 07 13 07 4C 31 62 13 19 4C 46 70 38 46 68 70
16 64 70 32 38 4A 15 0D 2A 52 2C 4C 0E 43 1C 38
70 58 07 1C 25 54 43 4A 31 4A 4C 16 32 51 2C 52
58 4A 26 26 16 62 34 61 4A 26 34 34 70 1A 07 23
2A 1C 15 15 2A 26 51 43 32 1C 25 23 15 0B 2C 2A
15 34 1C 15 70 19 58 07 4C 32 43 54 70 61 68 2A
31 2A 62 68 1C 13 31 1C 34 0B 16 2C 43 0B 1C 16
61 2A 54 2C 38 0E 70 0D 51 58 25 70 13 46 19 19
58 26 58 46 07 31 68 13 2A 38 4A 32 52 0B 61 26
0B 43 2A 46 25 25 43 13 1A 15 0D 34 2A 2A 31 51
13 32 43 15 0E 64 70 4C 0B 34 64 54 46 0E 62 68
07 68 4C 64 38 19 0D 1C 15 13 23 34 15 23 52 32
26 70 1A 51 0B 07 2A 26 54 68 0E 51 70 0D 61 26
4C 1A 0E 52 31 31 15 46 68 07 43 64 26 54 70 19
34 64 4A 26 1A 26 32 4C 51 32 64 2A 51 19 61 64
64 61 34 1C 2A 51 62 16 58 51 15 23 32 0B 15 4C
58 32 68 34 46 23 68 31 64 0D 2A 54 34 2A 52 34
58 19 4A 70 70 58 16 58 46 1C 1C 51 07 43 0B 13
52 1C 4C 51 51 31 70 51 13 19 13 23 23 70 51 2A
26 38 4C 62 64 32 4C 4C 1A 54 15 4A 4A 46 2C 46
46 38 1C 68 34 38 68 13 16 32 4C 4A 58 2A 07 58
38 15 61 64 64 23 23 19 32 32 54 51 19 52 4C 4A
26 15 0B 19 16 64 19 19 34 0B 2A 51 38 0E 68 19
52 64 16 0D 32 54 64 13 0E 32 1C 4A 23 61 4A 61
2C 68 58 1C 2A 46 4A 0E 51 54 1A 51 43 0E 64 34
62 2C 52 2A 64 62 07 07 16 1A 16 2A 62 51 16 58
15 1C 0E 1C 34 70 0D 4A 25 62 38 68 19 13 64 54
58 32 0B 58 58 0D 70 31 4C 19 2C 54 70 46 0E 1A
34 4C 0E 31 4A 64 64 23 61 26 31 61 1C 0D 0D 25
4C 23 62 2C 0D 15 0B 46 43 4A 23 23 51 13 16 4C
70 64 38 51 43 15 16 2A 0B 19 64 38 25 2C 4C 62
0D 64 54 16 70 23 26 4C 0D 31 43 07 43 4C 2A 1C
51 2C 64 70 58 64 0B 0D 2C 38 62 46 52 51 52 31
1A 16 4C 26 0B 38 2C 2A 1A 13 2C 1C 38 52 31 34
34 34 13 2A 43 43 1C 1A 70 43 62 1C 1C 51 16 15
38 68 38 43 38 68 1C 32 1A 38 1C 07 52 0E 38 0D
54 19 38 23 07 0B 15 23 64 38 4C 0B 51 4A 1A 2C
4A 68 32 43 61 16 4C 25 32 51 68 16 4C 25 15 23
13 0B 16 38 46 70 19 19 54 64 54 62 16 32 52 34
23 13 58 51 15 52 54 23 43 4C 0E 61 64 54 0D 43
31 4A 16 70 23 19 31 15 34 23 62 58 0B 32 64 26
34 70 31 70 0B 25 07 54 4C 15 23 43 1C 32 64 46
2A 07 23 70 0D 0B 54 43 51 38 0D 38 0B 61 46 70
43 23 16 0B 62 07 43 32 15 31 0D 0D 51 25 64 38
15 2C 70 0E 64 07 43 38 13 15 2A 32 19 13 0E 25
43 34 46 2C 32 19 62 61 61 0B 52 2A 1C 43 2C 52
34 15 62 4A 2A 25 64 70 19 1C 26 46 16 0B 4C 13
25 2C 46 26 16 1A 4A 62 4A 1C 25 07 4A 61 25 64
70 64 19 19 0E 70 0B 0B 70 46 13 23 46 38 70 0B
19 4C 4A 23 2C 19 19 0D 23 46 15 25 26 64 32 15
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9224 kHz, 19-09 1737 UTC, T600

Sync 1EB41EB2952

Session Key: 54 46 34 51 13 46 70 1A 0D 31 43 4A 15 38 25 19 4A 2C 34 26 32 58 38 2A 51
25 0E 07 70 0D 16 4A 2C 4C 58 61 51 61 2A 52 2A
4C 4C 4C 70 1A 16 13 52 32 26 4C 68 25 68 1C 1C
43 58 32 51 51 4C 1C 70 52 1C 38 13 0E 16 07 15
31 4A 26 25 38 64 25 0E 15 54 4A 34 0E 70 62 0E
26 15 46 32 52 38 38 34 1A 32 2A 43 31 68 62 70
4A 38 15 38 70 15 1A 62 51 61 15 16 46 4A 1C 23
54 1C 16 43 0E 58 4A 2C 32 31 23 43 38 13 34 64
61 61 16 51 19 16 54 23 23 25 70 52 52 32 32 0E
46 51 61 54 4C 51 23 23 26 16 46 0B 0B 1C 68 0E
70 1C 54 68 25 70 0B 62 4A 52 54 62 15 25 0D 52
0D 1A 62 0E 51 43 2C 26 23 0B 26 61 2C 4C 2C 26
2C 38 68 2C 0E 15 61 58 54 23 <EOM><EOM><EOM>

9224 kHz, 19-09 1738 UTC, T600

Sync 1EB41EB2952

Session Key: 19 16 52 4A 68 68 68 64 15 58 61 13 19 31 62 32 0D 70 62 58 23 0B 64 25 1C
 61 26 15 62 13 58 15 2A 58 51 68 54 23 68 31 31
 54 25 13 46 0D 52 51 2C 1A 2C 62 38 32 19 2A 52
 70 58 4A 07 46 16 4C 58 2C 07 07 15 34 26 15 52
 1A 23 62 64 26 43 31 58 70 58 51 0D 07 25 54 07
 13 19 46 32 19 19 26 52 54 46 2C 46 54 58 1A 62
 15 46 68 46 16 2C 68 52 43 52 19 52 23 25 16 58
 2A 31 46 4C 31 23 0E 0B 32 19 16 0E 0E 52 16 25
 32 4A 19 2C 31 2C 1C 54 2C 64 15 0B 0B 19 32 34
 54 70 4A 31 62 16 31 2A 51 0E 62 64 2A 58 4C 43
 38 51 70 62 0B 26 2A 4A 26 51 19 0B 1A 2B 74 13
 <EOM><EOM><EOM>

9224 kHz, 19-09 1738 UTC, T600

Sync 1EB41EB2952

Session Key: 64 38 15 4A 70 07 1A 0E 51 4C 25 51 58 58 2A 2C 23 0E 58 25 70 13 19 54 68
 2A 2C 2C 19 0E 51 52 61 0D 54 25 1A 46 19 2C 68
 32 51 2A 31 2C 0E 43 68 19 4C 38 70 54 70 13 46
 0E 25 31 43 62 16 54 34 16 62 64 19 43 23 62 58
 23 70 61 61 64 34 64 07 43 19 38 38 4A 0B 16 1A
 2C 32 62 34 2A 0B 16 1C 19 2C 34 54 31 1C 15 52
 52 68 38 1A 0B 4A 19 4C 1C 54 34 1C 4A 31 15 4C
 68 07 62 61 46 15 2A 38 13 2C 46 58 43 <EOM><EOM><EOM>

CONTRIBUTORS

AB	Ary Boender, Netherlands
AB-CYP	Ary Boender via remote rx Cyprus
AB-FIN	Ary Boender via remote rx Finland
AB-GRC	Ary Boender via remote rx Greece
AB-HNG	Ary Boender via remote rx Hungary
AB-J	Ary Boender via remote rx Japan
AB-KOR	Ary Boender via remote rx South Korea
AB-POL	Ary Boender via remote rx Poland
AB-S	Ary Boender via remote rx Sweden
AB-USA	Ary Boender via remote rx USA
Anon	Anonymous
Dan	Daniel LU5EMM, Argentina
EW	Eddy Waters, Australia
FD	Full Day Waterfall, University Twente SDR
HFD	Hans-Friedrich Dumrese, Germany
HFD-J	Hans-Friedrich Dumrese via remote rx Japan
HFD-POL	Hans-Friedrich Dumrese via remote rx Poland
HFD-USA	Hans-Friedrich Dumrese via remote rx USA
HK	Hiroyuki Komatsubara, Japan
JPL	JPL, NB, Canada (and various remote rx)
Lac	Lazycrypt
linkz	Linkz, S.E. France
Moon	Moonlight (Dave AU)
PY	Pierre Ynard, France and via remote rx
Ringo	Ringo S.
RL	Roberto Landolpho, Brazil
RO	Rando One, Sweden
Rycat	Rycat
Subilo	Subilo
TJ	Trond Jacobsen, Norway
TM	Time Machine

LOGS SECTION

Code	Date	UTC	Freq	Day	Details	Mode	Contributor
---	5-9	1024	6844.5	Fri	Unid. Hello, this is electronic warfare calling (see N&O #336)	USB	(PY)
---	5-9	1026	6844.5	Fri	Unid. Hello, this is electronic warfare calling (see N&O #336)	USB	(PY)
---	5-9	1028	6928.5	Fri	Unid. Hello, this is electronic warfare calling (see N&O #336)	USB	(PY)
---	5-9	1041	7620	Fri	Unid. Hello, this is electronic warfare calling (see N&O #336)	USB	(PY)
---	5-9	1043	7624.5	Fri	Unid. Hello, this is electronic warfare calling (see N&O #336)	USB	(PY)
---	5-9	1047	8074.5	Fri	Unid. Hello, this is electronic warfare calling (see N&O #336)	USB	(PY)
---	5-9	1049	8143.5	Fri	Unid. Hello, this is electronic warfare calling (see N&O #336)	USB	(PY)
---	5-9	1051	8185.5	Fri	Unid. Hello, this is electronic warfare calling (see N&O #336)	USB	(PY)
---	18-9	1135	18908	Thu	Unid station	MFSK-11	(AB)
BUL	16-9	1023	14786	Tue	Bulgarian diplo	RFSM-8000	(AB)
BUL	16-9	1225	17440	Tue	Bulgarian diplo	RFSM-8000	(AB)
BUL	16-9	1225	18035	Tue	Bulgarian diplo	RFSM-8000	(AB)
BUL	18-9	0720	9375	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	18-9	0817	14755	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	18-9	1023	14786	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	18-9	1225	17440	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	18-9	1225	18035	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	18-9	1255	18455	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	19-9	0824	14755	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	19-9	0841	17440	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	19-9	0846	14786	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	24-9	0826	14755	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	24-9	1023	14786	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	24-9	1222	17440	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	24-9	1258	18455	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	26-9	0822	14755	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	26-9	1023	14786	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	26-9	1222	17440	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	26-9	1253	18455	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	30-9	0830	14755	Tue	Bulgarian diplo	RFSM-8000	(AB)
BUL	30-9	1258	18455	Tue	Bulgarian diplo	RFSM-8000	(AB)
E06	13-8	0720	10755	Wed	975 (R4m) 001 52 34512 37837 98234 ... 61283 71368 51345 001 52 00000	USB	(PY)
E06	12-9	2100	10243	Fri	058 349 20 33692 45830 78019 ... 19293 55260 23718 439 20 00000	USB	(FD)
E06	12-9	2130	8167	Fri	TX failure after callup, 7m silence then restart	USB	(PY)
E06	13-9	1100	14721	Sat	058 349 20 33692 45830 78019 ... 19293 55260 23718 439 20 00000	USB	(PY)
E06	13-9	1130	12188	Sat	058 (message)	USB	(PY)
E06	14-9	2100	10423	Sun	058 (rest too weak)	USB	(FD)
E06	14-9	2130	8167	Sun	058 167 23 02948 65705 55480 ... 28185 58743 45062 167 23 00000	USB	(FD)

E06	15-9	1100	14721	Mon	058 167 23 02948 65705 55480 ... 28185 58743 45062 167 23 00000	USB	(AB)
E06	15-9	1100	14721	Mon	058 167 23 02948 65705 55480 ... 28185 58743 45062 167 23 00000	USB	(FD)
E06	15-9	1130	12177	Mon	058 167 23 02948 65705 55480 ... 28185 58743 45062 167 23 00000	USB	(AB)
E06	15-9	1130	12177	Mon	058 167 23 02948 65705 55480 ... 28185 58743 45062 167 23 00000	USB	(FD)
E06	16-9	2100	10423	Tue	Too weak, carrier visible only	USB	(FD)
E06	16-9	2130	8167	Tue	Too weak, carrier visible only	USB	(FD)
E06	17-9	1100	14721	Wed	058 439 26 76355 33773 47637 ... 53849 11120 96726 439 26 00000	USB	(AB)
E06	17-9	1100	14721	Wed	058 439 26 76355 33773 47637 ... 53849 11120 96726 439 26 00000	USB	(FD)
E06	17-9	1130	12177	Wed	058 439 26 76355 33773 47637 ... 53849 11120 96726 439 26 00000	USB	(FD)
E06/SO 6	14-8	1750	10755	Thu	75 (R4m) then S06 163 52 49438 88309 89844 ... 12002 55770 16309 163 52 00000	USB/LSB	(PY)
E06b	17-8	0915	10755	Sun	975 15791 843 52 95149 10536 32717 ... 69103 62385 73003 843 52 00000	USB/LSB	(PY)
E06b	21-8	0900	10755	Thu	975 51364 213 52 94018 49438 88309 ... 16417 12002 55770 213 52 00000	USB/LSB	(PY)
E07	2-9	1500	17452	Tue	428 428 428 1 5661 137 5661 137 29175 33674 31960 ... 27161 06144 81220 000 000	USB	(AB/Lac/HFD)
E07	2-9	1520	16272	Tue	428 428 428 1 5661 137 5661 137 29175 33674 31960 ... 27161 06144 81220 000 000	USB	(AB/Lac/HFD)
E07	2-9	1540	14875	Tue	428 428 428 1 5661 137 5661 137 29175 33674 31960 ... 27161 06144 81220 000 000	USB	(AB/Lac/HFD)
E07	4-9	1000	18287	Thu	241 241 241 000	USB	(AB/HFD)
E07	4-9	1020	17471	Thu	241 241 241 000	USB	(AB/HFD)
E07	5-9	1500	17452	Fri	428 428 428 1 5661 137 5661 137 29175 33674 31960 ... 27161 06144 81220 000 000	USB	(AB)
E07	5-9	1520	16272	Fri	428 428 428 1 5661 137 5661 137 29175 33674 31960 ... 27161 06144 81220 000 000	USB	(AB)
E07	5-9	1540	14875	Fri	428 428 428 1 5661 137 5661 137 29175 33674 31960 ... 27161 06144 81220 000 000	USB	(AB)
E07	6-9	1000	18287	Sat	241 241 241 000	USB	(AB)
E07	6-9	1020	17471	Sat	241 241 241 000	USB	(AB)
E07	9-9	1500	17452	Tue	428 428 428 000	USB	(AB)
E07	9-9	1520	16272	Tue	428 428 428 000	USB	(AB)
E07	11-9	1000	18287	Thu	241 241 241 1 331 129 331 129 02212 64900 96132 ... 39239 65007 80026 000 000	USB	(AB/Lac/HFD)
E07	11-9	1020	17471	Thu	241 241 241 1 331 129 331 129 02212 64900 96132 ... 39239 65007 80026 000 000	USB	(AB/Lac/HFD)
E07	11-9	1040	16135	Thu	241 241 241 1 331 129 331 129 02212 64900 96132 ... 39239 65007 80026 000 000	USB	(AB/Lac/HFD)
E07	12-9	1500	17452	Fri	428 428 428 000	USB	(AB)
E07	12-9	1520	16272	Fri	428 428 428 000	USB	(AB)
E07	13-9	1000	18287	Sat	241 241 241 1 331 129 331 129 02212 64900 96132 ... 39239 65007 80026 000 000	USB	(AB)
E07	13-9	1020	17471	Sat	241 241 241 1 331 129 331 129 02212 64900 96132 ... 39239 65007 80026 000 000	USB	(AB)
E07	13-9	1040	16135	Sat	241 241 241 1 331 129 331 129 02212 64900 96132 ... 39239 65007 80026 000 000	USB	(AB)
E07	16-9	1500	17452	Tue	428 428 428 1 867 188 867 188 04159 86647 92946 ... 84817 70985 05711 000 000	USB	(AB/Lac)
E07	16-9	1520	16272	Tue	428 428 428 1 867 188 867 188 04159 86647 92946 ... 84817 70985 05711 000 000	USB	(AB/Lac)
E07	16-9	1540	14875	Tue	428 428 428 1 867 188 867 188 04159 86647 92946 ... 84817 70985 05711 000 000	USB	(AB/Lac)

E07	18-9	1000	18287	Thu	241 241 241 000	USB	(AB)
E07	18-9	1020	17471	Thu	241 241 241 000	USB	(AB)
E07	19-9	1500	17452	Fri	428 428 428 1 867 188 867 188 04159 86647 92946 ... 84817 70985 05711 000 000	USB	(AB)
E07	19-9	1520	16272	Fri	428 428 428 1 867 188 867 188 04159 86647 92946 ... 84817 70985 05711 000 000	USB	(AB)
E07	19-9	1540	14875	Fri	428 428 428 1 867 188 867 188 04159 86647 92946 ... 84817 70985 05711 000 000	USB	(AB)
E07	20-9	1000	18287	Sat	241 241 241 000	USB	(AB)
E07	20-9	1020	17471	Sat	241 241 241 000	USB	(AB)
E07	23-9	1500	17452	Tue	428 428 428 000	USB	(AB)
E07	23-9	1520	16272	Tue	428 428 428 000	USB	(AB)
E07	25-9	1000	18287	Thu	241 241 241 1 6866 147 6866 147 96181 42775 84693 ... 00321 81718 10828 000 000	USB	(AB)
E07	25-9	1020	17471	Thu	241 241 241 1 6866 147 6866 147 96181 42775 84693 ... 00321 81718 10828 000 000	USB	(AB)
E07	25-9	1040	16135	Thu	241 241 241 1 6866 147 6866 147 96181 42775 84693 ... 00321 81718 10828 000 000	USB	(AB)
E07	26-9	1500	17452	Fri	428 428 428 000	USB	(AB)
E07	26-9	1520	16272	Fri	428 428 428 000	USB	(AB)
E07	27-9	1000	18287	Sat	241 241 241 1 6866 147 6866 147 96181 42775 84693 ... 00321 81718 10828 000 000	USB	(AB/Lac)
E07	27-9	1020	17471	Sat	241 241 241 1 6866 147 6866 147 96181 42775 84693 ... 00321 81718 10828 000 000	USB	(AB/Lac)
E07	27-9	1040	16135	Sat	241 241 241 1 6866 147 6866 147 96181 42775 84693 ... 00321 81718 10828 000 000	USB	(AB/Lac)
E07	30-9	1500	17452	Tue	428 428 428 1 175 99 175 99 79422 21899 59215 ... 36189 33335 77936 000 000	USB	(AB/Lac)
E07	30-9	1520	16272	Tue	428 428 428 1 175 99 175 99 79422 21899 59215 ... 36189 33335 77936 000 000	USB	(AB/Lac)
E07	30-9	1540	14875	Tue	428 428 428 1 175 99 175 99 79422 21899 59215 ... 36189 33335 77936 000 000	USB	(AB/Lac)
E11	1-9	0315	12630	Mon	252/00 Out	USB	(AB/Lac)
E11	1-9	0645	10800	Mon	412/00 Out	USB	(AB/Lac/HFD)
E11	1-9	0715	19515	Mon	755/00 Out	USB	(AB/Lac/HFD)
E11	1-9	0830	20170	Mon	180/00 Out	USB	(AB/Lac/HFD)
E11	1-9	0845	12202	Mon	713/00 Out	USB	(AB/Lac/HFD)
E11	1-9	1045	12385	Mon	692/00 Out	USB	(AB/Lac/HFD)
E11	1-9	1745	13470	Mon	240/00 Out	USB	(AB/Lac/HFD)
E11	1-9	1900	7317	Mon	646/00 Out	USB	(AB/Lac/HFD)
E11	2-9	0645	13470	Tue	518/00 Out	USB	(Lac/HFD)
E11	2-9	0700	8180	Tue	574/00 Out	USB	(AB/Lac/HFD)
E11	2-9	0745	22995	Tue	228/00 Out	USB	(Lac/HFD)
E11	2-9	0820	19184	Tue	131/00 Out	USB	(AB-POL/HFD)
E11	2-9	0845	18168	Tue	155/00 Out	USB	(AB/Lac/HFD)
E11	2-9	1230	12530	Tue	335/00 Out	USB	(Lac/HFD)
E11	2-9	1430	14972	Tue	917/00 Out	USB	(AB/Lac/HFD)
E11	2-9	1605	5176	Tue	230/00 Out	USB	(AB/Lac/HFD)

E11	3-9	0645	10800	Wed	411/00 Out	USB	(AB/Lac)
E11	3-9	0715	19515	Wed	759/00 Out	USB	(Lac)
E11	3-9	0820	19184	Wed	138/00 Out	USB	(AB/Lac)
E11	3-9	0845	12202	Wed	716/00 Out	USB	(AB/Lac)
E11	3-9	0930	6940	Wed	275/00 Out	USB	(AB/Lac/HFD)
E11	3-9	1045	12385	Wed	697/00 Out	USB	(AB)
E11	3-9	1610	4181	Wed	390/00 Out	USB	(AB/Lac/HFD)
E11	3-9	1715	6923	Wed	978/00 Out	USB	(AB/Lac/HFD)
E11	4-9	0645	13470	Thu	512/00 Out	USB	(AB/Lac)
E11	4-9	0720	9446	Thu	439/00 Out	USB	(AB/TJ/Lac/HFD)
E11	4-9	0745	22995	Thu	221/00 Out	USB	(AB/Lac)
E11	4-9	0845	18168	Thu	156/00 Out	USB	(AB/TJ/Lac)
E11	4-9	0930	6940	Thu	276/00 Out	USB	(AB-POL)
E11	4-9	0930	6940	Thu	647/00 Out	USB	(Lac)
E11	4-9	1230	12530	Thu	338/00 Out	USB	(AB)
E11	4-9	1900	7317	Thu	647/00 Out	USB	(AB/Lac)
E11	4-9	2000	5737	Thu	522/00 Out	USB	(AB/Lac/HFD)
E11	5-9	0700	8180	Fri	574/00 Out	USB	(AB/Lac)
E11	5-9	0715	15720	Fri	635/00 Out	USB	(Lac/HFD)
E11	5-9	0720	9446	Fri	436/00 Out	USB	(AB/Lac)
E11	5-9	0830	20170	Fri	188/00 Out	USB	(AB-POL/TJ/Lac)
E11	5-9	1000	9951	Fri	300/00 Out	USB	(AB/Lac)
E11	5-9	1715	6923	Fri	978/00 Out	USB	(AB)
E11	5-9	1910	8530	Fri	618/00 Out	USB	(AB/HFD)
E11	6-9	1430	14972	Sat	919/00 Out	USB	(AB)
E11	6-9	1610	4181	Sat	393/00 Out	USB	(AB)
E11	6-9	1645	4505	Sat	364/00 Out	USB	(AB/HFD)
E11	7-9	1605	5176	Sun	237/00 Out	USB	(AB)
E11	7-9	1645	4505	Sun	368/00 Out	USB	(AB)
E11	7-9	1745	13470	Sun	242/00 Out	USB	(AB)
E11	7-9	1910	8530	Sun	614/00 out	USB	(AB)
E11	7-9	2000	5737	Sun	520/00 Out	USB	(AB)
E11	8-9	0600	25839	Mon	941/00 Out	USB	(AB-POL)
E11	8-9	0645	10800	Mon	413/00 Out	USB	(AB)
E11	8-9	0715	19515	Mon	755/00 Out	USB	(AB/Lac)
E11	8-9	0745	10213	Mon	260/00 Out	USB	(AB/Lac/HFD)
E11	8-9	0800	10800	Mon	transmission cut out without sign off 413/00	USB	(Lac)
E11	8-9	0830	20170	Mon	182/00 Out	USB	(AB-POL/Lac)
E11	8-9	0845	12202	Mon	710/00 Out	USB	(AB)
E11	8-9	0900	13117	Mon	536/00 Out	USB	(AB)
E11	8-9	1045	12385	Mon	690/00 Out	USB	(AB)
E11	8-9	1300	5371	Mon	315/00 Out	USB	(AB-POL)

E11	8-9	1900	7317	Mon	644/00 Out	USB	(AB)
E11	9-9	0645	13470	Tue	514/00 Out	USB	(AB)
E11	9-9	0700	8180	Tue	577/00 Out	USB	(AB)
E11	9-9	1205	9399	Tue	469/00 Out	USB	(AB)
E11	9-9	1230	12530	Tue	335/00 Out	USB	(AB)
E11	9-9	1605	5176	Tue	233/00 Out	USB	(AB)
E11	10-9	0315	12630	Wed	250/00 Out	USB	(AB)
E11	10-9	0645	10800	Wed	412/00 Out	USB	(AB)
E11	10-9	0745	17410	Wed	346/00 Out	USB	(AB)
E11	10-9	0845	12202	Wed	715/00 Out	USB	(AB)
E11	10-9	0900	13117	Wed	533/00 Out	USB	(AB)
E11	10-9	0930	6940	Wed	271/00 Out	USB	(AB-POL)
E11	10-9	1045	12385	Wed	692/00 Out	USB	(AB)
E11	10-9	1205	9399	Wed	464/00 Out	USB	(AB)
E11	10-9	1610	4181	Wed	395/00 Out	USB	(AB)
E11	11-9	0645	13470	Thu	518/00 Out	USB	(AB)
E11	11-9	0720	9446	Thu	430/00 Out	USB	(AB)
E11	11-9	0930	6940	Thu	273/00 Out	USB	(AB)
E11	11-9	1230	12530	Thu	338/00 Out	USB	(AB)
E11	11-9	1300	5371	Thu	310/00 Out	USB	(AB-POL)
E11	11-9	1530	10330	Thu	261/00 Out	USB	(AB)
E11	11-9	1900	7317	Thu	643/00 Out	USB	(AB)
E11	11-9	2000	5737	Thu	522/00 Out	USB	(AB)
E11	12-9	0600	8680	Fri	359/00 Out	USB	(AB)
E11	12-9	0700	8180	Fri	573/00 Out	USB	(AB)
E11	12-9	0715	14666	Fri	630/00 Out	USB	(AB)
E11	12-9	0720	9446	Fri	430/00 Out	USB	(AB)
E11	12-9	0745	17410	Fri	346/00 Out	USB	(AB)
E11	12-9	0830	20170	Fri	188/00 Out	USB	(AB)
E11	12-9	1815	11116	Fri	922/00 Out	USB	(AB)
E11	13-9	0700	9079	Sat	490/00 Out	USB	(AB)
E11	13-9	1610	4181	Sat	396/00 Out	USB	(AB)
E11	13-9	1645	4505	Sat	369/00 Out	USB	(AB)
E11	14-9	0600	8680	Sun	350/00 Out	USB	(AB)
E11	14-9	0700	9079	Sun	496/00 Out	USB	(AB)
E11	14-9	1605	5176	Sun	238/00 Out	USB	(AB)
E11	14-9	1645	4505	Sun	366/00 Out	USB	(AB)
E11	14-9	1815	11116	Sun	929/00 Out	USB	(AB)
E11	14-9	2000	5737	Sun	520/00 Out	USB	(AB)
E11	15-9	0600	25839	Mon	948/00 Out	USB	(AB-POL)
E11	15-9	0745	10213	Mon	266/00 Out	USB	(AB-POL)
E11	15-9	0900	13117	Mon	532/00 Out	USB	(AB)

E11	15-9	0900	13117	Mon	532/00 Out	USB	(AB-POL)
E11	15-9	1300	5371	Mon	314/00 Out	USB	(AB-POL)
E11	15-9	1745	13470	Mon	249/00 Out	USB	(AB)
E11	15-9	1900	7317	Mon	648/00 Out	USB	(AB)
E11	16-9	0645	13470	Tue	510/00 Out	USB	(AB)
E11	16-9	0715	14666	Tue	631/00 Out (??? barely audible)	USB	(AB)
E11	16-9	0745	22995	Tue	220/00 Out	USB	(AB-POL)
E11	16-9	0820	19184	Tue	134/00 Out	USB	(AB)
E11	16-9	0845	18168	Tue	159/00 Out	USB	(AB)
E11	16-9	1000	9951	Tue	300/00 out	USB	(AB)
E11	16-9	1205	9399	Tue	464/00 Out	USB	(AB/Lac)
E11	16-9	1430	14972	Tue	919/00 Out	USB	(AB/Lac)
E11	17-9	0600	25839	Wed	945/00 Out	USB	(Lac)
E11	17-9	0715	14666	Wed	635/00 Out	USB	(Lac)
E11	17-9	0745	17410	Wed	346/00 Out	USB	(AB)
E11	17-9	0820	19184	Wed	134/00 Out	USB	(AB)
E11	17-9	0900	13117	Wed	532/00 Out	USB	(AB/Lac)
E11	17-9	0930	6940	Wed	279/00 Out	USB	(AB)
E11	17-9	1205	9399	Wed	469/00 Out	USB	(AB)
E11	17-9	1610	4181	Wed	394/00 Out	USB	(AB)
E11	17-9	1715	6923	Wed	975/00 Out	USB	(AB)
E11	18-9	0645	13470	Thu	511/00 Out	USB	(AB)
E11	18-9	0745	22995	Thu	228/00 Out	USB	(AB-POL)
E11	18-9	0845	18168	Thu	152/00 Out	USB	(AB)
E11	18-9	0930	6940	Thu	270/00 Out	USB	(AB)
E11	18-9	1300	5371	Thu	310/00 Out	USB	(AB)
E11	18-9	1530	10330	Thu	261/00 Out	USB	(AB)
E11	18-9	1900	7317	Thu	641/00 Out	USB	(AB)
E11	19-9	0600	8680	Fri	351/00 Out	USB	(AB)
E11	19-9	0715	14666	Fri	635/00 Out	USB	(AB)
E11	19-9	0745	17410	Fri	344/00 Out	USB	(AB)
E11	19-9	1000	9951	Fri	304/00 out	USB	(AB)
E11	19-9	1715	6923	Fri	977/00 Out	USB	(AB)
E11	19-9	1815	11116	Fri	924/00 Out	USB	(AB)
E11	19-9	1910	8530	Fri	618/00 Out	USB	(AB)
E11	20-9	0700	9079	Sat	498/00 Out	USB	(AB)
E11	20-9	1430	14972	Sat	910/00 Out	USB	(AB)
E11	20-9	1610	4181	Sat	394/00 Out	USB	(AB)
E11	20-9	1645	4505	Sat	369/00 Out	USB	(AB)
E11	21-9	0600	8680	Sun	No transmission	USB	(AB)
E11	21-9	0700	9079	Sun	No transmission	USB	(AB)
E11	21-9	1605	5176	Sun	No transmission	USB	(AB)

E11	21-9	1645	4505	Sun	No transmission	USB	(AB)
E11	21-9	1745	13470	Sun	No transmission	USB	(AB)
E11	21-9	1815	11116	Sun	No transmission	USB	(AB)
E11	21-9	1910	8530	Sun	No transmission	USB	(AB)
E11	21-9	2000	5737	Sun	No transmission	USB	(AB)
E11	22-9	0315	12630	Mon	No transmission	USB	(AB)
E11	22-9	0600	25839	Mon	No transmission	USB	(AB-POL)
E11	22-9	0645	10800	Mon	No transmission	USB	(AB)
E11	22-9	0745	10213	Mon	No transmission	USB	(AB-POL)
E11	22-9	0830	20170	Mon	No transmission	USB	(AB-POL)
E11	22-9	0845	12202	Mon	No transmission	USB	(AB-POL)
E11	22-9	0900	13117	Mon	No transmission	USB	(AB)
E11	22-9	0900	13117	Mon	No transmission	USB	(AB-POL)
E11	22-9	1045	12385	Mon	692/00 Out	USB	(AB)
E11	22-9	1300	5371	Mon	315/00 Out	USB	(AB-POL)
E11	22-9	1745	13470	Mon	240/00 Out	USB	(AB)
E11	23-9	0700	8180	Tue	579/00 Out	USB	(AB)
E11	23-9	0745	22995	Tue	221/00 Out	USB	(AB-POL)
E11	23-9	0820	19184	Tue	130/00 Out	USB	(AB)
E11	23-9	0845	18168	Tue	155/00 Out	USB	(AB)
E11	23-9	1000	9951	Tue	306/00 out	USB	(AB)
E11	23-9	1205	9399	Tue	Active, too weak to copy	USB	(AB)
E11	23-9	1230	12530	Tue	337/00 Out	USB	(AB)
E11	23-9	1430	14972	Tue	910/00 Out	USB	(AB)
E11	23-9	1605	5176	Tue	235/00 Out	USB	(AB)
E11	24-9	0600	25839	Wed	940/00 Out	USB	(AB-POL)
E11	24-9	0645	10800	Wed	416/00 Out	USB	(AB)
E11	24-9	0715	19515	Wed	755/00 Out	USB	(AB)
E11	24-9	0745	17410	Wed	349/00 Out	USB	(AB)
E11	24-9	0820	19184	Wed	130/00 Out	USB	(AB)
E11	24-9	0845	12202	Wed	718/00 Out	USB	(AB)
E11	24-9	0900	13117	Wed	533/00 Out	USB	(AB)
E11	24-9	1045	12385	Wed	692/00 Out	USB	(AB)
E11	24-9	1205	9399	Wed	464/00 Out	USB	(AB)
E11	24-9	1715	6923	Wed	972/00 Out	USB	(AB)
E11	25-9	0720	9446	Thu	436/00 Out	USB	(AB)
E11	25-9	0745	22995	Thu	224/00 Out	USB	(AB-POL)
E11	25-9	0845	18168	Thu	157/00 Out	USB	(AB)
E11	25-9	1230	12530	Thu	330/00 Out	USB	(AB)
E11	25-9	1300	5371	Thu	314/00 Out	USB	(AB)
E11	25-9	1530	10330	Thu	261/00 Out	USB	(AB)
E11	25-9	2000	5737	Thu	521/00 Out	USB	(AB)

E11	26-9	0600	8680	Fri	358/00 Out	USB	(AB)
E11	26-9	0700	8180	Fri	574/00 Out	USB	(AB)
E11	26-9	0720	9446	Fri	436/00 Out	USB	(AB)
E11	26-9	0745	17410	Fri	347/00 Out	USB	(AB/Lac)
E11	26-9	0830	20170	Fri	183/00 Out	USB	(AB-POL)
E11	26-9	1000	9951	Fri	309/00 out	USB	(AB)
E11	26-9	1715	6923	Fri	978/00 Out	USB	(AB)
E11	26-9	1815	11116	Fri	926/00 Out	USB	(AB)
E11	26-9	1910	8530	Fri	613/00 Out	USB	(AB)
E11	27-9	0700	9079	Sat	492/00 Out	USB	(AB)
E11	27-9	1430	14972	Sat	910/00 Out	USB	(AB)
E11	28-9	0600	8680	Sun	351/00 Out	USB	(AB)
E11	28-9	0700	9079	Sun	492/00 Out	USB	(AB)
E11	28-9	1605	5176	Sun	236/00 Out	USB	(AB)
E11	28-9	1745	13470	Sun	242/00 Out	USB	(AB)
E11	28-9	1815	11116	Sun	925/00 Out	USB	(AB)
E11	28-9	1910	8530	Sun	613/00 Out	USB	(AB)
E11	28-9	2000	5737	Sun	521/00 Out	USB	(AB)
E11	29-9	0600	25839	Mon	944/00 Out	USB	(AB/Lac)
E11	29-9	0645	10800	Mon	416/00 Out	USB	(AB/Lac)
E11	29-9	0715	19515	Mon	753/00 Out	USB	(AB-POL/Lac)
E11	29-9	0745	10213	Mon	266/00 Out	USB	(AB-POL/Lac)
E11	29-9	0830	20170	Mon	183/00 Out	USB	(AB-POL/Lac)
E11	29-9	0845	12202	Mon	719/00 Out	USB	(AB-POL/Lac)
E11	29-9	0900	13117	Mon	530/00 Out	USB	(AB)
E11	29-9	1045	12385	Mon	696/00 Out	USB	(AB)
E11	29-9	1300	5371	Mon	316/00 Out	USB	(AB-POL)
E11	29-9	1745	13470	Mon	245/00 Out	USB	(AB-POL)
E11	29-9	1900	7317	Mon	649/00 Out	USB	(AB)
E11	30-9	0645	13470	Tue	517/00 Out	USB	(AB)
E11	30-9	0700	8180	Tue	576/00 Out	USB	(AB)
E11	30-9	0715	14666	Tue	637/00 Out	USB	(AB)
E11	30-9	0745	22995	Tue	220/00 Out	USB	(AB-POL)
E11	30-9	0820	19184	Tue	131/00 Out	USB	(AB)
E11	30-9	0845	18168	Tue	155/00 Out	USB	(AB)
E11	30-9	0900	22995	Tue	220/00 Out	USB	(Lac)
E11	30-9	1000	9951	Tue	305/00 out	USB	(AB)
E11	30-9	1205	9399	Tue	465/00 Out	USB	(AB)
E11	30-9	1230	12530	Tue	332/00 Out	USB	(AB)
E11	30-9	1430	14972	Tue	911/00 Out	USB	(AB)
E11	30-9	1605	5176	Tue	233/00 Out	USB	(AB)

E11a	1-9	0600	25839	Mon	942/26 Attention 19574 42605 90920 ... 64659 88603 02364 Attention (msg rptd) Out	USB	(Lac/HFD-POL/LAB)
E11a	1-9	0900	13117	Mon	535/32 Attention 44044 73149 11810 ... 09317 62580 87062 Attention (msg rptd) Out	USB	(AB/Lac/HFD)
E11a	1-9	1300	5371	Mon	319/32 Attention 10618 42785 43716 ... 46565 54191 65494 Attention (msg rptd) Out	USB	(AB/Lac/HFD)
E11a	2-9	1205	9399	Tue	464/38 Attention 19197 73363 51915 ... 57716 17008 99476 Attention (msg rptd) Out	USB	(AB/Lac/HFD)
E11a	3-9	0600	25839	Wed	942/26 Attention 19574 42605 90920 ... 64659 88603 02364 Attention (msg rptd) Out	USB	(AB/Lac/HFD)
E11a	3-9	0745	17410	Wed	346/36 Attention 48783 18234 19526 ... 73882 13136 04806 Attention (msg rptd) Out	USB	(TJ/Lac/HFD)
E11a	3-9	0900	13117	Wed	535/32 Attention 44044 73149 11810 ... 09317 62580 87062 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	3-9	1205	9399	Wed	464/38 Attention 19197 73363 51915 ... 57716 17008 99476 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	4-9	1300	5371	Thu	319/32 Attention 10618 42785 43716 ... 46565 54191 65494 Attention (msg rptd) Out	USB	(AB-POL)
E11a	4-9	1530	10330	Thu	262/36 Attention 41337 50824 49640 ... 61620 41137 36837 Attention (msg rptd) Out	USB	(AB/HFD)
E11a	5-9	0600	8680	Fri	358/37 Attention 79039 86435 57383 ... 58991 29675 74955 Attention (msg rptd) Out	USB	(AB/Lac/HFD)
E11a	5-9	0745	17410	Fri	346/36 Attention 48783 18234 19526 ... 73882 13136 04806 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	5-9	1815	11116	Fri	922/35 Attention 11065 27120 76827 ... 28827 96202 00624 Attention (msg rptd) Out	USB	(AB/HFD)
E11a	6-9	0700	9079	Sat	490/31 Attention 19778 72848 68672 ... 56719 09807 47581 Attention (msg rptd) Out	USB	(AB/HFD)
E11a	7-9	0600	8680	Sun	358/37 Attention 79039 86435 57383 ... 58991 29675 74955 Attention (msg rptd) Out	USB	(AB)
E11a	7-9	0700	9079	Sun	490/31 Attention 19778 72848 68672 ... 56719 09807 47581 Attention (msg rptd) Out	USB	(AB/TJ)
E11a	7-9	1815	11116	Sun	922/35 Attention 11065 27120 76827 ... 28827 96202 00624 Attention (msg rptd) Out	USB	(AB)
E11a	8-9	0700	8597	Mon	test tone heard at 0901z. Nothing else	USB	(Lac)
E11a	8-9	1745	13470	Mon	249/39 Attention 62023 17148 00359 ... 64083 41357 73438 Attention (msg rptd) Out	USB	(AB)
E11a	9-9	0745	22995	Tue	229/31 Attention 72761 31875 94467 ... 99155 82094 72065 Attention (msg rptd) Out	USB	(AB-POL)
E11a	9-9	0820	19184	Tue	138/40 Attention 02278 98345 32396 ... 39444 44490 80874 Attention (msg rptd) Out	USB	(AB-POL)
E11a	9-9	0845	18168	Tue	151/37 Attention 64347 22048 19231 ... 98005 54633 18719 Attention (msg rptd) Out	USB	(AB-POL)
E11a	9-9	1000	9951	Tue	300/29 Attention 74228 82589 98790 ... 95620 04608 84989 Attention (msg rptd) out	USB	(AB)
E11a	9-9	1430	14972	Tue	917/38 Attention 57784 79491 73072 ... 27697 51556 71029 Attention (msg rptd) Out	USB	(AB-CYP)
E11a	10-9	0820	19184	Wed	138/40 Attention 02278 98345 32396 ... 39444 44490 80874 Attention (msg rptd) Out	USB	(AB)
E11a	10-9	1715	6923	Wed	972/37 Attention 97735 66274 54008 ... 25584 57832 63724 Attention (msg rptd) Out	USB	(AB)
E11a	11-9	0745	22995	Thu	229/31 Attention 72761 31875 94467 ... 99155 82094 72065 Attention (msg rptd) Out	USB	(AB)
E11a	11-9	0845	18168	Thu	151/37 Attention 64347 22048 19231 ... 98005 54633 18719 Attention (msg rptd) Out	USB	(AB)
E11a	12-9	1000	9951	Fri	300/29 Attention 74228 82589 98790 ... 95620 04608 84989 Attention (msg rptd) out	USB	(AB)
E11a	12-9	1715	6923	Fri	972/37 Attention 97735 66274 54008 ... 25584 57832 63724 Attention (msg rptd) Out	USB	(AB)
E11a	12-9	1910	8530	Fri	614/33 Attention 26043 00575 12808 ... 94059 28903 60518 Attention (msg rptd) Out	USB	(AB)
E11a	13-9	1430	14972	Sat	917/38 Attention 57784 79491 73072 ... 27697 51556 71029 Attention (msg rptd) Out	USB	(AB)
E11a	14-9	1745	13470	Sun	249/39 Attention 62023 17148 00359 ... 64083 41357 73438 Attention (msg rptd) Out	USB	(AB)
E11a	14-9	1910	8530	Sun	614/33 Attention 26043 00575 12808 ... 94059 28903 60518 Attention (msg rptd) Out	USB	(AB)
E11a	15-9	0645	10800	Mon	416/36 Attention 69628 00712 39339 ... 44865 37106 54400 Attention (msg rptd) Out	USB	(AB)
E11a	15-9	0715	19515	Mon	750/32 Attention (too weak to copy)	USB	(AB-POL)
E11a	15-9	0830	20170	Mon	182/37 Attention 91180 53753 37701 ... 19105 96405 65192 Attention (msg rptd) Out	USB	(AB-POL)
E11a	15-9	0845	12202	Mon	710/33 Attention 50335 81508 23498 ... 45037 31641 27409 Attention (msg rptd) Out	USB	(AB-POL)
E11a	15-9	1045	12385	Mon	691/35 Attention 36943 09157 17582 ... 79430 17973 17746 Attention (msg rptd) Out	USB	(AB)
E11a	16-9	0700	8180	Tue	575/38 Attention 34973 13049 80866 ... 46796 33953 44178 Attention (msg rptd) Out	USB	(AB)
E11a	16-9	1230	12530	Tue	337/36 Attention (too weak to copy)	USB	(AB)

E11a	16-9	1605	5176	Tue	238/33 Attention 77341 14319 12784 ... 92532 63992 95277 Attention (msg rptd) Out	USB	(AB)
E11a	17-9	0645	10800	Wed	416/36 Attention 69628 00712 39339 ... 44865 37106 54400 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	17-9	0700	8180	Wed	575/38 Attention 34973 13049 80866 ... 46796 33953 44178 Attention (msg rptd) Out	USB	(Lac)
E11a	17-9	0715	19515	Wed	750/32 Attention (too weak to copy)	USB	(AB)
E11a	17-9	0845	12202	Wed	710/33 Attention 50335 81508 23498 ... 45037 31641 27409 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	17-9	1045	12385	Wed	691/35 Attention 36943 09157 17582 ... 79430 17973 17746 Attention (msg rptd) Out	USB	(AB)
E11a	18-9	0720	9446	Thu	431/32 Attention 47239 46546 72275 ... 73319 41660 12374 Attention (msg rptd) Out	USB	(AB)
E11a	18-9	1230	12530	Thu	337/36 Attention 33874 63921 26838 ... 98797 65478 28451 Attention msg rptd) Out	USB	(AB)
E11a	18-9	2000	5737	Thu	522/31 Attention 22403 75235 53733 ... 70631 35532 07930 Attention (msg rptd) Out	USB	(AB)
E11a	19-9	0700	8180	Fri	575/38 Attention 34973 13049 80866 ... 46796 33953 44178 Attention (msg rptd) Out	USB	(AB)
E11a	19-9	0720	9446	Fri	431/32 Attention 47239 46546 72275 ... 73319 41660 12374 Attention (msg rptd) Out	USB	(AB)
E11a	19-9	0830	20170	Fri	182/37 Attention 91180 53753 37701 ... 19105 96405 65192 Attention (msg rptd) Out	USB	(AB-POL)
E11a	22-9	0715	19515	Mon	No transmission	USB	(AB-POL)
E11a	22-9	1900	7317	Mon	644/39 Attention 82030 22806 38782 ... 35206 30912 10570 Attention (msg rptd) Out	USB	(AB)
E11a	23-9	0645	13470	Tue	519/35 Attention 46272 75246 27853 ... 52329 20190 99237 Attention (msg rptd) Out	USB	(AB)
E11a	23-9	0715	14666	Tue	630/32 Attention 69676 28784 72321 ... 87210 80882 96811 Attention (msg rptd) Out	USB	(AB)
E11a	24-9	0315	12630	Wed	250/32 Attention 13011 29049 17593 ... 02941 65058 46211 Attention (msg rptd) Out	USB	(AB)
E11a	24-9	0930	6940	Wed	275/35 Attention 15661 44454 22156 ... 24546 19887 15661 Attention (msg rptd) Out	USB	(AB)
E11a	24-9	1610	4181	Wed	392/38 Attention 00862 63643 01751 ... 73463 75581 44727 Attention (msg rptd) Out	USB	(AB)
E11a	25-9	0645	13470	Thu	519/35 Attention 46272 75246 27853 ... 52329 20190 99237 Attention (msg rptd) Out	USB	(AB)
E11a	25-9	0930	6940	Thu	275/35 Attention 15661 44454 22156 ... 24546 19887 15661 Attention (msg rptd) Out	USB	(AB)
E11a	25-9	1900	7317	Thu	644/39 Attention 82030 22806 38782 ... 35206 30912 10570 Attention (msg rptd) Out	USB	(AB)
E11a	26-9	0715	14666	Fri	630/32 Attention 69676 28784 72321 ... 87210 80882 96811 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	27-9	1610	4181	Sat	392/38 Attention 00862 63643 01751 ... 73463 75581 44727 Attention (msg rptd) Out	USB	(AB)
E11a	27-9	1645	4505	Sat	368/34 Attention 31222 23433 61599 ... 44173 21023 58003 Attention (msg rptd) Out	USB	(AB)
E11a	28-9	1645	4505	Sun	368/34 Attention 31222 23433 61599 ... 44173 21023 58003 Attention (msg rptd) Out	USB	(AB)
EGY	15-9	1340	18051.7	Mon	MFA Cairo wkg RCVB: Egyptian embassy Washington	SITOR-A 100/170	(AB)
EGY	15-9	1347	18050	Mon	99904: MFA Cairo wkg 66601: Egyptian embassy Washington	CODAN	(AB)
EGY	15-9	1350	18051.7	Mon	MFA Cairo wkg RCVB: Egyptian embassy Washington. QSY to 20035 kHz (HOKDS ODS 53002+?HJ -nothing heard there)	SITOR-A 100/170	(AB)
EGY	15-9	1353	18051.7	Mon	MFA Cairo wkg RCVB: Egyptian embassy Washington. (KY KY RKS+?9 788 YKZK KYOH RGK KUXD GQFY RKS KY)	SITOR-A 100/170	(AB)
EGY	15-9	1354	18050	Mon	99904: MFA Cairo wkg 66601: Egyptian embassy Washington	CODAN	(AB)
EGY	15-9	1359	18051.7	Mon	MFA Cairo closing the link with RCVB: Egyptian embassy Washington	SITOR-A 100/170	(AB)
EGY	29-9	1350	19667.7	Mon	Unid Egyptian embassy clg SСТО: MFA Cairo	SITOR-A 100/170	(AB)
F01	1-9	1015	9128	Mon	Barely audible, undecodable	FSK 200/500	(AB)
F01	1-9	1025	7546	Mon	Not heard	FSK 200/500	(AB)
F01	1-9	1035	5113	Mon	Not heard	FSK 200/500	(AB)
F01	2-9	1015	9128	Tue	Too weak to decode	FSK 200/500	(AB-POL)
F01	2-9	1015	9128	Tue	FSK 200/500 7:55 via KiwiSDR POL	FSK 200/500	(HFD-POL)
F01	2-9	1025	7546	Tue	Not heard	FSK 200/500	(AB)
F01	2-9	1025	7546	Tue	FSK 200/500 via KiwiSDR POL	FSK 200/500	(HFD-POL)

F01	2-9	1035	5113	Tue	Not heard	FSK 200/500	(AB)
F01	3-9	1015	9128	Wed	Too weak to decode	FSK 200/500	(AB-FIN)
F01	3-9	1025	7546	Wed	Too weak to decode	FSK 200/500	(AB)
F01	3-9	1035	5113	Wed	Not heard	FSK 200/500	(AB)
F01	4-9	1015	9128	Thu	Messages 26 and 27. Partly decoded	FSK 200/500	(AB-FIN)
F01	4-9	1025	7546	Thu	Too weak to decode	FSK 200/500	(AB-FIN)
F01	4-9	1035	5113	Thu	Not heard	FSK 200/500	(AB)
F01	5-9	1015	9128	Fri	00000 +++++ +++++	FSK 200/500	(AB-FIN)
F01	5-9	1025	7546	Fri	Not heard	FSK 200/500	(AB)
F01	5-9	1035	5113	Fri	Not heard	FSK 200/500	(AB)
F01	8-9	1015	9128	Mon	Barely audible, undecodable	FSK 200/500	(AB)
F01	8-9	1025	7546	Mon	Not heard	FSK 200/500	(AB)
F01	8-9	1035	5113	Mon	Not heard	FSK 200/500	(AB)
F01	11-9	1015	9128	Thu	Messages 32 and 33	FSK 200/500	(AB-FIN)
F01	11-9	1025	7546	Thu	Messages 32 and 33	FSK 200/500	(AB-FIN)
F01	11-9	1035	5113	Thu	Messages 32 and 33	FSK 200/500	(AB-FIN)
F01	12-9	1015	9128	Fri	00000 +++++ +++++	FSK 200/500	(AB-FIN)
F01	12-9	1025	7546	Fri	00000 +++++ +++++	FSK 200/500	(AB-POL)
F01	12-9	1035	5113	Fri	00000 +++++ +++++	FSK 200/500	(AB-FIN)
F01	15-9	1015	9128	Mon	Message 34	FSK 200/500	(AB-POL)
F01	15-9	1025	7546	Mon	Message 34	FSK 200/500	(AB-POL)
F01	15-9	1035	5113	Mon	Message 34	FSK 200/500	(AB-FIN)
F01	16-9	1015	9128	Tue	Message 35 and 36	FSK 200/500	(AB-POL)
F01	16-9	1025	7546	Tue	Message 35 and 36	FSK 200/500	(AB-POL)
F01	16-9	1035	5113	Tue	Message 35 and 36	FSK 200/500	(AB-FIN)
F01	17-9	1015	9128	Wed	Message 37	FSK 200/500	(AB-POL)
F01	17-9	1025	7546	Wed	Message 37	FSK 200/500	(AB-POL)
F01	17-9	1035	5113	Wed	Message 37	FSK 200/500	(AB-FIN)
F01	18-9	1015	9128	Thu	Messages 38 and 39	FSK 200/500	(AB-FIN)
F01	18-9	1025	7546	Thu	Messages 38 and 39	FSK 200/500	(AB-FIN)
F01	18-9	1035	5113	Thu	Messages 38 and 39	FSK 200/500	(AB-FIN)
F01	22-9	1015	9128	Mon	Message 40	FSK 200/500	(AB-POL)
F01	22-9	1025	7546	Mon	Message 40	FSK 200/500	(AB-POL)
F01	22-9	1035	5113	Mon	Message 40	FSK 200/500	(AB-FIN)
F01	23-9	1015	9128	Tue	Message 41 and 42	FSK 200/500	(AB-POL)
F01	23-9	1025	7546	Tue	Message 41 and 42	FSK 200/500	(AB-POL)
F01	23-9	1035	5113	Tue	Message 41 and 42	FSK 200/500	(AB-FIN)
F01	24-9	1015	9128	Wed	Message 43	FSK 200/500	(AB-POL)
F01	24-9	1025	7546	Wed	Message 43	FSK 200/500	(AB-POL)
F01	24-9	1035	5113	Wed	Message 43	FSK 200/500	(AB-FIN)
F01	26-9	1015	9128	Fri	00000 +++++ +++++	FSK 200/500	(AB-FIN)
F01	26-9	1025	7546	Fri	00000 +++++ +++++	FSK 200/500	(AB-POL)

F01	26-9	1035	5113	Fri	00000 +++++ +++++	FSK 200/500	(AB-FIN)
F01	29-9	1015	9128	Mon	Message 43	FSK 200/500	(AB-POL)
F01	29-9	1025	7546	Mon	Message 43	FSK 200/500	(AB-POL)
F01	29-9	1035	5113	Mon	Message 43	FSK 200/500	(AB-FIN)
F01	30-9	1015	9128	Tue	Message 47 and 48	FSK 200/500	(AB-POL)
F01	30-9	1025	7546	Tue	Message 47 and 48	FSK 200/500	(AB-POL)
F01	30-9	1035	5113	Tue	Message 47 and 48	FSK 200/500	(AB-FIN)
F02	16-9	0800	14983	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	22-9	1437	16303	Mon	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	22-9	1450	16303	Mon	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F03j	27-8	1130	12153	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(Rycat)
F03j	27-8	1135	12153	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(Rycat)
F03j	1-9	0530	20586	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	1-9	0535	20586	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	1-9	0630	19515	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	1-9	0635	19515	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	1-9	0810	20586	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	1-9	0815	20586	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	2-9	0835	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	2-9	0840	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-9	0630	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-9	0635	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-9	0835	18030	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB/TJ)
F03j	4-9	0840	18030	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB/TJ)
F03j	5-9	0700	8545	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-9	0705	8545	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-9	0810	20586	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	5-9	0815	20586	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	5-9	0945	7663	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-9	0950	7663	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-9	0530	20586	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	8-9	0535	20586	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	8-9	0630	19515	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-9	0635	19515	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-9	0810	20586	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	8-9	0815	20586	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	9-9	0835	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-9	0840	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-9	0945	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-9	0950	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-9	0530	20586	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	10-9	0535	20586	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)

F03j	10-9	0630	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-9	0635	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-9	0835	18030	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-9	0840	18030	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-9	0700	8545	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-9	0705	8545	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-9	0810	20586	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-9	0815	20586	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-9	0945	7663	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-9	0950	7663	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-9	0530	20586	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	15-9	0535	20586	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	16-9	0835	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-9	0840	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-9	0945	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-9	0950	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-9	0530	20586	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	17-9	0535	20586	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	17-9	0630	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-9	0635	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-9	0700	8545	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-9	0705	8545	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-9	0835	18030	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-9	0840	18030	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-9	0700	8545	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-9	0705	8545	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-9	0810	20586	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-9	0810	20586	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-9	0815	20586	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-9	0815	20586	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-9	0945	7663	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-9	0950	7663	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	22-9	0530	20586	Mon	No transmission	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	22-9	0535	20586	Mon	No transmission	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	23-9	0835	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-9	0835	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-9	0840	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-9	0840	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-9	0945	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-9	0950	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-9	0530	20586	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	24-9	0535	20586	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)

F03j	24-9	0630	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-9	0635	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-9	0700	8545	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-9	0705	8545	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-9	0835	18030	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-9	0840	18030	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-9	0700	8545	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-9	0705	8545	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-9	0945	7663	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-9	0950	7663	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	29-9	0530	20586	Mon	No transmission	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	29-9	0535	20586	Mon	No transmission	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	29-9	0810	20586	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	29-9	0815	20586	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	30-9	0945	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-9	0950	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03I	1-9	0930	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	1-9	0935	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	1-9	0940	12202	Mon	Polish intel. Unscheduled 30sec transmission	FSK-2 100Bd/200Hz/448bp	(PY)
F03I	1-9	0940	12202	Mon	Polish intel. Unscheduled 30sec transmission	FSK-2 100Bd/200Hz/448bp	(PY)
F03I	1-9	0945	12202	Mon	Polish intel. Unscheduled 30sec transmission	FSK-2 100Bd/200Hz/448bp	(PY)
F03I	1-9	0945	12202	Mon	Polish intel. Unscheduled 30sec transmission	FSK-2 100Bd/200Hz/448bp	(PY)
F03I	1-9	0950	10487	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	1-9	0955	10487	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	1-9	1010	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	1-9	1015	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	1-9	1050	12202	Mon	Polish intel. Unscheduled 30sec transmission	FSK-2 100Bd/200Hz/448bp	(PY)
F03I	1-9	1055	12202	Mon	Polish intel. Unscheduled 30sec transmission	FSK-2 100Bd/200Hz/448bp	(PY)
F03I	1-9	1245	12202	Mon	Polish intel. Unscheduled 30sec transmission	FSK-2 100Bd/200Hz/448bp	(PY)
F03I	1-9	1250	12202	Mon	Polish intel. Unscheduled 30sec transmission	FSK-2 100Bd/200Hz/448bp	(PY)
F03I	1-9	1830	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	1-9	1835	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	2-9	0725	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	2-9	0730	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	2-9	0800	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	2-9	0805	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	2-9	0810	12202	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	2-9	0815	12202	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	3-9	0915	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	3-9	0920	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	3-9	0950	10487	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	3-9	0955	10487	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)

F03I	3-9	1010	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	3-9	1015	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	3-9	1315	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	3-9	1320	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	4-9	0615	12229	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	4-9	0620	12229	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	4-9	0725	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	4-9	0725	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	4-9	0735	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	4-9	0740	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	4-9	0915	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	4-9	0920	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	5-9	0850	12202	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	5-9	0855	12202	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	5-9	0930	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	5-9	0935	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	5-9	1315	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	5-9	1320	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-9	0735	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-9	0740	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-9	0930	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-9	0935	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-9	0950	10487	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-9	0955	10487	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-9	1010	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-9	1015	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-9	1830	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-9	1835	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-9	0615	12229	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-9	0620	12229	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-9	0725	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-9	0730	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-9	0800	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-9	0805	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-9	0810	12202	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-9	0815	12202	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-9	0615	18978	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-9	0620	18978	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-9	0800	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-9	0805	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-9	0915	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	10-9	0920	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)

F03I	10-9	0950	10487	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-9	0955	10487	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-9	1010	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-9	1015	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-9	1315	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-9	1320	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-9	0615	12229	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-9	0620	12229	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-9	0725	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-9	0725	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-9	0735	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-9	0740	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-9	0915	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-9	0920	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-9	1830	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-9	1835	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	12-9	0850	12202	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	12-9	0855	12202	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	12-9	0930	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	12-9	0935	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	12-9	1315	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	12-9	1320	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-9	0950	10487	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-9	0955	10487	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-9	1010	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-9	1015	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-9	1830	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-9	1835	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	16-9	0615	12229	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	16-9	0620	12229	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	16-9	0725	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	16-9	0730	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	16-9	0800	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	16-9	0805	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	16-9	0810	12202	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	16-9	0815	12202	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-9	0615	18978	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-9	0620	18978	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-9	0800	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-9	0805	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-9	0915	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	17-9	0920	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)

F03I	17-9	0950	10487	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-9	0955	10487	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-9	1010	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-9	1015	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-9	1315	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-9	1321	15915	Wed	Polish intel. Late start	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-9	0615	12229	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-9	0620	12229	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-9	0725	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-9	0725	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-9	0735	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-9	0740	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-9	0915	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-9	0920	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-9	1830	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-9	1835	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	19-9	0850	12202	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	19-9	0855	12202	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	19-9	0930	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	19-9	0935	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	19-9	1315	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	19-9	1320	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-9	0950	10487	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-9	0955	10487	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-9	1010	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-9	1015	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-9	1830	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-9	1835	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-9	0615	12229	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-9	0620	12229	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-9	0725	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-9	0730	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-9	0800	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-9	0805	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-9	0810	12202	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-9	0815	12202	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-9	0615	18978	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-9	0620	18978	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-9	0800	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-9	0805	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-9	0915	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	24-9	0920	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)

F03I	24-9	0950	10487	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-9	0955	10487	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-9	1010	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-9	1015	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-9	1315	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-9	1320	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-9	0615	12229	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-9	0620	12229	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-9	0725	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-9	0725	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-9	0735	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-9	0740	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-9	0915	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-9	0920	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-9	1830	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-9	1835	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	26-9	0850	12202	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	26-9	0855	12202	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	26-9	0930	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	26-9	0935	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	26-9	1315	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	26-9	1320	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-9	0615	18978	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-9	0620	18978	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-9	0950	10487	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-9	0955	10487	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-9	1010	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-9	1015	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-9	1830	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-9	1835	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-9	0615	12229	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-9	0620	12229	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-9	0725	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-9	0730	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-9	0800	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-9	0805	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-9	0810	12202	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-9	0815	12202	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F06	1-9	0400	8163	Mon	11166 70059 95137 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	1-9	0410	7450	Mon	11166 70059 95137 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	1-9	0420	6789	Mon	11166 70059 95137 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	1-9	0800	9274	Mon	11100 00000 25471 29006 00799	FSK 200/1000	(AB-FIN/TJ)

F06	1-9	0810	7614	Mon	11100 00000 25471 29006 00799	FSK 200/1000	(AB-FIN)
F06	2-9	0030	12077	Tue	11166 60070 13579 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-9	0040	9055	Tue	11166 60070 13579 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-9	0050	7989	Tue	11166 60070 13579 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-9	0700	8183	Tue	11166 70202 56741 01030 01779 and 11166 70202 23568 01031 01679	FSK 200/1000	(AB-POL)
F06	2-9	0710	6839	Tue	Not heard	FSK 200/1000	(AB)
F06	2-9	0720	5264	Tue	Not heard	FSK 200/1000	(AB)
F06	2-9	0800	9274	Tue	11100 00000 25471 29006 00799	FSK 200/1000	(AB-POL)
F06	2-9	0810	7614	Tue	11100 00000 25471 29006 00799	FSK 200/1000	(AB-FIN)
F06	2-9	1200	9188	Tue	11166 70202 56741 01030 01779 and 11166 70202 23568 01031 01679	FSK 200/1000	(AB)
F06	2-9	1210	7673	Tue	Not heard	FSK 200/1000	(AB)
F06	2-9	1220	5872	Tue	Not heard	FSK 200/1000	(AB)
F06	2-9	1650	19351	Tue	11166 10053 25813 02078 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-9	1700	18517	Tue	11166 10053 25813 02078 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-9	1710	13527	Tue	11166 10053 25813 02078 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4-9	0700	8183	Thu	11166 70202 96381 03034 02039 and 11166 70202 96381 03034 02039	FSK 200/1000	(AB-S)
F06	4-9	0710	6839	Thu	Not heard	FSK 200/1000	(AB)
F06	4-9	0720	5264	Thu	Not heard	FSK 200/1000	(AB)
F06	4-9	1200	9188	Thu	11166 70202 96381 03034 02039 and 11166 70202 96381 03034 02039	FSK 200/1000	(AB-POL)
F06	4-9	1210	7673	Thu	Too weak to decode	FSK 200/1000	(AB-FIN)
F06	4-9	1220	5872	Thu	Not heard	FSK 200/1000	(AB)
F06	4-9	1330	19256	Thu	11166 80214 69523 04058 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4-9	1340	14521	Thu	11166 80214 69523 04058 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4-9	1350	12137	Thu	11166 80214 69523 04058 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5-9	0700	8183	Fri	11166 70202 51247 04069 00049 00000 00000 00000 00000	FSK 200/1000	(AB-POL)
F06	5-9	0710	6839	Fri	11166 70202 51247 04069 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5-9	0720	5264	Fri	Not heard	FSK 200/1000	(AB)
F06	7-9	1530	20931	Sun	11166 10053 19537 07001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7-9	1540	19219	Sun	11166 10053 19537 07001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7-9	1550	14389	Sun	11166 10053 19537 07001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	8-9	0800	9274	Mon	11100 00000 35741 05007 02139	FSK 200/1000	(AB-FIN)
F06	8-9	0810	7614	Mon	11100 00000 35741 05007 02139	FSK 200/1000	(AB-FIN)
F06	9-9	0030	12077	Tue	11166 60070 95184 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9-9	0040	9055	Tue	11166 60070 95184 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9-9	0050	7989	Tue	11166 60070 95184 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9-9	0700	8183	Tue	11166 70202 65347 08036 01139 and 11166 70202 74690 08037 02099	FSK 200/1000	(AB-POL)
F06	9-9	0710	6839	Tue	11166 70202 65347 08036 01139 and 11166 70202 74690 08037 02099	FSK 200/1000	(AB-FIN)
F06	9-9	0720	5264	Tue	11166 70202 65347 08036 01139 and 11166 70202 74690 08037 02099	FSK 200/1000	(AB-FIN)
F06	9-9	0800	9274	Tue	11100 00000 35741 05007 02139	FSK 200/1000	(AB-FIN)
F06	9-9	0810	7614	Tue	11100 00000 35741 05007 02139	FSK 200/1000	(AB-FIN)
F06	9-9	1200	9188	Tue	11166 70202 65347 08036 01139 and 11166 70202 74690 08037 02099	FSK 200/1000	(AB)
F06	9-9	1210	7673	Tue	11166 70202 65347 08036 01139 and 11166 70202 74690 08037 02099	FSK 200/1000	(AB)

F06	9-9	1220	5872	Tue	11166 70202 65347 08036 01139 and 11166 70202 74690 08037 02099	FSK 200/1000	(AB)
F06	9-9	1650	19351	Tue	11166 10053 85123 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9-9	1700	18517	Tue	11166 10053 85123 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9-9	1710	13527	Tue	11166 10053 85123 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-9	0700	8183	Thu	11166 70202 74613 10039 01179 and 11166 70202 12859 10040 02279	FSK 200/1000	(AB-S)
F06	11-9	0710	6839	Thu	11166 70202 74613 10039 01179 and 11166 70202 12859 10040 02279	FSK 200/1000	(AB-S)
F06	11-9	0720	5264	Thu	11166 70202 74613 10039 01179 and 11166 70202 12859 10040 02279	FSK 200/1000	(AB-S)
F06	11-9	1200	9188	Thu	11166 70202 74613 10039 01179 and 11166 70202 12859 10040 02279	FSK 200/1000	(AB-POL)
F06	11-9	1210	7673	Thu	11166 70202 74613 10039 01179 and 11166 70202 12859 10040 02279	FSK 200/1000	(AB-FIN)
F06	11-9	1220	5872	Thu	11166 70202 74613 10039 01179 and 11166 70202 12859 10040 02279	FSK 200/1000	(AB-FIN)
F06	11-9	1330	19256	Thu	11166 80214 76391 10019 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-9	1340	14521	Thu	11166 80214 76391 10019 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-9	1350	12137	Thu	11166 80214 76391 10019 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12-9	0700	8183	Fri	11166 70202 98712 12055 00049 00000 00000 00000 00000	FSK 200/1000	(AB-POL)
F06	12-9	0710	6839	Fri	11166 70202 98712 12055 00049 00000 00000 00000 00000	FSK 200/1000	(AB-POL)
F06	12-9	0720	5264	Fri	11166 70202 98712 12055 00049 00000 00000 00000 00000	FSK 200/1000	(AB-FIN)
F06	12-9	1100	14432	Fri	11100 00000 13578 11001 01529	FSK 200/1000	(PY)
F06	12-9	1110	12209	Fri	11100 00000 13578 11001 01529	FSK 200/1000	(PY)
F06	12-9	1120	10271	Fri	11100 00000 13578 11001 01529	FSK 200/1000	(PY)
F06	14-9	1100	14432	Sun	11100 00000 95612 13002 01629	FSK 200/1000	(PY)
F06	14-9	1110	12209	Sun	11100 00000 95612 13002 01629	FSK 200/1000	(PY)
F06	14-9	1120	10271	Sun	Idle carrier for 30sec at 1119z but no transmission at 1120z	FSK 200/1000	(PY)
F06	14-9	1530	20931	Sun	Wrong shift. Undecodable null message	FSK 200/668	(AB)
F06	14-9	1540	19219	Sun	Wrong shift. Undecodable null message	FSK 200/668	(AB)
F06	14-9	1550	14389	Sun	Wrong shift. Undecodable null message	FSK 200/668	(AB)
F06	15-9	0400	8163	Mon	11166 70059 95184 15001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15-9	0410	7450	Mon	11166 70059 95184 15001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15-9	0420	6789	Mon	11166 70059 95184 15001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15-9	0800	9274	Mon	11100 00000 86531 12008 03359	FSK 200/1000	(AB-FIN)
F06	15-9	0810	7614	Mon	11100 00000 86531 12008 03359	FSK 200/1000	(AB-FIN)
F06	16-9	0030	12077	Tue	11166 60070 74523 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16-9	0040	9055	Tue	11166 60070 74523 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16-9	0050	7989	Tue	11166 60070 74523 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16-9	0700	8183	Tue	11166 70202 32185 15042 01279 and 11166 70202 41769 15043 02199	FSK 200/1000	(AB-POL)
F06	16-9	0710	6839	Tue	11166 70202 32185 15042 01279 and 11166 70202 41769 15043 02199	FSK 200/1000	(AB-FIN)
F06	16-9	0720	5264	Tue	11166 70202 32185 15042 01279 and 11166 70202 41769 15043 02199	FSK 200/1000	(AB-FIN)
F06	16-9	0800	9274	Tue	11100 00000 86531 12008 03359	FSK 200/1000	(AB-FIN)
F06	16-9	0810	7614	Tue	11100 00000 86531 12008 03359	FSK 200/1000	(AB-FIN)
F06	16-9	1100	14432	Tue	11100 00000 59312 15003 01729	FSK 200/1000	(PY)
F06	16-9	1110	12209	Tue	Idle carrier for 2m30s at 1108z. No further activity	FSK 200/1000	(PY)
F06	16-9	1120	10271	Tue	No transmission	FSK 200/1000	(PY)
F06	16-9	1200	9188	Tue	11166 70202 32185 15042 01279 and 11166 70202 41769 15043 02199	FSK 200/1000	(AB)

F06	16-9	1210	7673	Tue	11166 70202 32185 15042 01279 and 11166 70202 41769 15043 02199	FSK 200/1000	(AB)
F06	16-9	1220	5872	Tue	11166 70202 32185 15042 01279 and 11166 70202 41769 15043 02199	FSK 200/1000	(AB)
F06	16-9	1650	19351	Tue	11166 10053 13579 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16-9	1700	18517	Tue	11166 10053 13579 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16-9	1710	13527	Tue	11166 10053 13579 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-9	0700	8183	Thu	11166 70202 32698 17045 01059 and 11166 70202 90547 17046 02019	FSK 200/1000	(AB-S)
F06	18-9	0710	6839	Thu	11166 70202 32698 17045 01059 and 11166 70202 90547 17046 02019	FSK 200/1000	(AB-S)
F06	18-9	0720	5264	Thu	11166 70202 32698 17045 01059 and 11166 70202 90547 17046 02019	FSK 200/1000	(AB-S)
F06	18-9	1200	9188	Thu	11166 70202 32698 17045 01059 and 11166 70202 90547 17046 02019	FSK 200/1000	(AB-Fin)
F06	18-9	1210	7673	Thu	11166 70202 32698 17045 01059 and 11166 70202 90547 17046 02019	FSK 200/1000	(AB-FIN)
F06	18-9	1220	5872	Thu	11166 70202 32698 17045 01059 and 11166 70202 90547 17046 02019	FSK 200/1000	(AB-FIN)
F06	18-9	1330	19256	Thu	11166 80214 76952 18055 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-9	1340	14521	Thu	11166 80214 76952 18055 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-9	1350	12137	Thu	11166 80214 76952 18055 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06a	18-9	1800	13986	Thu	File 04422 (375 bytes, binary contents)	FSK 200/1000	(PY)
F06a	18-9	1815	11076	Thu	File 04422 (375 bytes, binary contents)	FSK 200/1000	(PY)
F05a	19-9	1830	9935	Thu	File 04422 (375 bytes, binary contents)	FSK 200/1000	(PY)
F06	18-9	1850	9300	Thu	11100 00000 25813 18001 00129	FSK 200/1000	(AB)
F06	19-9	0700	8183	Fri	11166 70202 95482 19021 00049 00000 00000 00000 00000	FSK 200/1000	(AB-POL)
F06	19-9	0710	6839	Fri	11166 70202 95482 19021 00049 00000 00000 00000 00000	FSK 200/1000	(AB-POL)
F06	19-9	0720	5264	Fri	11166 70202 95482 19021 00049 00000 00000 00000 00000	FSK 200/1000	(AB-FIN)
F06	21-9	1530	20931	Sun	11166 10053 25813 21078 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	21-9	1540	19219	Sun	11166 10053 25813 21078 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	21-9	1550	14389	Sun	11166 10053 25813 21078 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	22-9	0100	17532	Mon	11100 09501 00000 22066 03679	FSK 200/1000	(Ringo)
F06	22-9	0800	9274	Mon	11100 00000 54821 19009 00839	FSK 200/1000	(AB-FIN)
F06	22-9	0810	7614	Mon	11100 00000 54821 19009 00839	FSK 200/1000	(AB-FIN)
F06	23-9	0030	12077	Tue	11166 60070 13579 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	23-9	0040	9055	Tue	11166 60070 13579 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	23-9	0050	7989	Tue	11166 60070 13579 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	23-9	0800	9274	Tue	11100 00000 54821 19009 00839	FSK 200/1000	(AB-FIN)
F06	23-9	0810	7614	Tue	11100 00000 54821 19009 00839	FSK 200/1000	(AB-FIN)
F06	23-9	1650	19351	Tue	11166 10053 95184 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	23-9	1700	18517	Tue	11166 10053 95184 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	23-9	1710	13527	Tue	11166 10053 95184 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	25-9	0700	8183	Thu	11166 70202 25483 24051 02059 and 11166 70202 19305 24052 01739	FSK 200/1000	(AB-Fin)
F06	25-9	0710	6839	Thu	11166 70202 25483 24051 02059 and 11166 70202 19305 24052 01739	FSK 200/1000	(AB-Fin)
F06	25-9	0720	5264	Thu	11166 70202 25483 24051 02059 and 11166 70202 19305 24052 01739	FSK 200/1000	(AB-Fin)
F06	25-9	1200	9188	Thu	11166 70202 25483 24051 02059 and 11166 70202 19305 24052 01739	FSK 200/1000	(AB-Fin)
F06	25-9	1210	7673	Thu	11166 70202 25483 24051 02059 and 11166 70202 19305 24052 01739	FSK 200/1000	(AB-FIN)
F06	25-9	1220	5872	Thu	11166 70202 25483 24051 02059 and 11166 70202 19305 24052 01739	FSK 200/1000	(AB-FIN)
F06	25-9	1330	19256	Thu	11166 80214 61582 25036 00049 00000 00000 00000 00000	FSK 200/1000	(AB)

F06	25-9	1340	14521	Thu	11166 80214 61582 25036 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	25-9	1350	12137	Thu	11166 80214 61582 25036 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	26-9	0700	8183	Fri	11166 70202 52846 25067 00049 00000 00000 00000 00000	FSK 200/1000	(AB-POL)
F06	26-9	0710	6839	Fri	11166 70202 52846 25067 00049 00000 00000 00000 00000	FSK 200/1000	(AB-POL)
F06	26-9	0720	5264	Fri	11166 70202 52846 25067 00049 00000 00000 00000 00000	FSK 200/1000	(AB-FIN)
F06	28-9	1530	20931	Sun	11166 10053 13579 28001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	28-9	1540	19219	Sun	11166 10053 13579 28001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	28-9	1550	14389	Sun	11166 10053 13579 28001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	29-9	0800	9274	Mon	11100 00000 36125 26010 00979	FSK 200/1000	(AB-FIN)
F06	29-9	0810	7614	Mon	11100 00000 36125 26010 00979	FSK 200/1000	(AB-FIN)
F06	30-9	0030	12077	Tue	11166 60070 95184 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-9	0040	9055	Tue	11166 60070 95184 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-9	0050	7989	Tue	11166 60070 95184 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-9	0700	8183	Tue	11166 70202 69271 29054 01579 and 11166 70202 25846 29055 02039	FSK 200/1000	(AB-POL)
F06	30-9	0710	6839	Tue	11166 70202 69271 29054 01579 and 11166 70202 25846 29055 02039	FSK 200/1000	(AB-POL)
F06	30-9	0720	5264	Tue	11166 70202 69271 29054 01579 and 11166 70202 25846 29055 02039	FSK 200/1000	(AB-FIN)
F06	30-9	0800	9274	Tue	11100 00000 36125 26010 00979	FSK 200/1000	(AB-FIN)
F06	30-9	0810	7614	Tue	11100 00000 36125 26010 00979	FSK 200/1000	(AB-FIN)
F06	30-9	1200	9188	Tue	11166 70202 69271 29054 01579 and 11166 70202 25846 29055 02039	FSK 200/1000	(AB-Fin)
F06	30-9	1210	7673	Tue	11166 70202 69271 29054 01579 and 11166 70202 25846 29055 02039	FSK 200/1000	(AB-FIN)
F06	30-9	1220	5872	Tue	11166 70202 69271 29054 01579 and 11166 70202 25846 29055 02039	FSK 200/1000	(AB-FIN)
F06	30-9	1650	19351	Tue	11166 10053 74523 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-9	1700	18517	Tue	11166 10053 74523 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-9	1710	13527	Tue	11166 10053 74523 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06a	1-9	0700	8183	Mon	Barely audible, undecodable	FSK 200/1000	(AB)
F06a	1-9	0715	6839	Mon	Barely audible, undecodable	FSK 200/1000	(AB)
F06a	1-9	0730	5264	Mon	Barely audible, undecodable	FSK 200/1000	(AB)
F06a	1-9	1200	9188	Mon	Barely audible, undecodable	FSK 200/1000	(AB)
F06a	1-9	1215	7673	Mon	Not heard	FSK 200/1000	(AB)
F06a	1-9	1230	5872	Mon	Not heard	FSK 200/1000	(AB)
F06a	3-9	0600	13947	Wed	File 44758 (binary contents)	FSK 200/1000	(AB)
F06a	3-9	0615	17536	Wed	File 44758 (binary contents)	FSK 200/1000	(AB)
F06a	3-9	0630	18945	Wed	File 44758 (binary contents)	FSK 200/1000	(AB)
F06a	3-9	0700	8183	Wed	Not monitored	FSK 200/1000	(AB)
F06a	3-9	0715	6839	Wed	Not monitored	FSK 200/1000	(AB)
F06a	3-9	0730	5264	Wed	Not monitored	FSK 200/1000	(AB)
F06a	3-9	1200	9188	Wed	File 44432 (binary contents)	FSK 200/1000	(AB-POL)
F06a	3-9	1215	7673	Wed	File 44432 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	3-9	1230	5872	Wed	Too weak to copy	FSK 200/1000	(AB-FIN)
F06a	4-9	0600	13947	Thu	File 44758 (binary contents)	FSK 200/1000	(AB)
F06a	4-9	0615	17536	Thu	File 44758 (binary contents)	FSK 200/1000	(AB)
F06a	4-9	0630	18945	Thu	File 44758 (binary contents)	FSK 200/1000	(AB)

F06a	8-9	0700	8183	Mon	File 44435, undecodable, very weak	FSK 200/1000	(AB-POL)
F06a	8-9	0715	6839	Mon	File 44435, undecodable, very weak	FSK 200/1000	(AB-POL)
F06a	8-9	0730	5264	Mon	Not heard	FSK 200/1000	(AB)
F06a	8-9	1200	9188	Mon	Not monitored	FSK 200/1000	(AB)
F06a	8-9	1215	7673	Mon	Not momitored	FSK 200/1000	(AB)
F06a	8-9	1230	5872	Mon	Not monitored	FSK 200/1000	(AB)
F06a	10-9	0600	13947	Wed	File 48459 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	10-9	0615	17536	Wed	File 48459 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	10-9	0630	18945	Wed	File 48459 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	10-9	0700	8183	Wed	File 44438 (binary contents)	FSK 200/1000	(AB)
F06a	10-9	0715	6839	Wed	File 44438 (binary contents)	FSK 200/1000	(AB)
F06a	10-9	0730	5264	Wed	File 44438 (binary contents)	FSK 200/1000	(AB)
F06a	10-9	1200	9188	Wed	File 44438 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	10-9	1215	7673	Wed	File 44438 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	10-9	1230	5872	Wed	File 44438 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	11-9	0600	13947	Thu	File 48459 (binary contents)	FSK 200/1000	(AB)
F06a	11-9	0615	17536	Thu	File 48459 (binary contents)	FSK 200/1000	(AB)
F06a	11-9	0630	18945	Thu	File 48459 (binary contents)	FSK 200/1000	(AB)
F06a	13-9	1600	25252	Sat	File 44431 (binary contents)	FSK 200/1000	(AB)
F06a	13-9	1615	23163	Sat	File 44431 (binary contents)	FSK 200/1000	(AB)
F06a	13-9	1630	20594	Sat	File 44431 (binary contents)	FSK 200/1000	(AB)
F06a	15-9	0700	8183	Mon	File 44441 (binary contents)	FSK 200/1000	(AB-POL)
F06a	15-9	0715	6839	Mon	File 44441 (binary contents)	FSK 200/1000	(AB-POL)
F06a	15-9	0730	5264	Mon	File 44441 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	15-9	1200	9188	Mon	File 44441 (binary contents)	FSK 200/1000	(AB-POL)
F06a	15-9	1215	7673	Mon	File 44441 (binary contents)	FSK 200/1000	(AB-POL)
F06a	15-9	1230	5872	Mon	File 44441 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	17-9	0600	13947	Wed	File 64460 (binary contents)	FSK 200/1000	(AB)
F06a	17-9	0615	17536	Wed	File 64460 (binary contents)	FSK 200/1000	(AB)
F06a	17-9	0630	18945	Wed	File 64460 (binary contents)	FSK 200/1000	(AB)
F06a	17-9	0700	8183	Wed	File 44444 (binary contents)	FSK 200/1000	(AB)
F06a	17-9	0715	6839	Wed	File 44444 (binary contents)	FSK 200/1000	(AB)
F06a	17-9	0730	5264	Wed	File 44444 (binary contents)	FSK 200/1000	(AB)
F06a	17-9	1200	9188	Wed	File 44444 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	17-9	1215	7673	Wed	File 44444 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	17-9	1230	5872	Wed	File 44444 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	18-9	0600	13947	Thu	File 64460 (binary contents)	FSK 200/1000	(AB)
F06a	18-9	0615	17536	Thu	File 64460 (binary contents)	FSK 200/1000	(AB)
F06a	18-9	0630	18945	Thu	File 64460 (binary contents)	FSK 200/1000	(AB)
F06a	20-9	0300	11452	Sat	File 44431 (binary contents)	FSK 200/1000	(AB)
F06a	20-9	0315	12219	Sat	File 44431 (binary contents)	FSK 200/1000	(AB)
F06a	20-9	0330	14983	Sat	File 44431 (binary contents)	FSK 200/1000	(AB)

F06a	20-9	1600	25252	Sat	File 44431 (binary contents)	FSK 200/1000	(AB-KWT)
F06a	20-9	1615	23163	Sat	File 44431 (binary contents)	FSK 200/1000	(AB-KWT)
F06a	20-9	1630	20594	Sat	File 44431 (binary contents)	FSK 200/1000	(AB-KWT)
F06a	22-9	0700	8183	Mon	File 44447 (binary contents)	FSK 200/1000	(AB-POL)
F06a	22-9	0715	6839	Mon	File 44447 (binary contents)	FSK 200/1000	(AB-POL)
F06a	22-9	0730	5264	Mon	File 44447 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	22-9	1200	9188	Mon	File 44447 (binary contents)	FSK 200/1000	(AB-POL)
F06a	22-9	1215	7673	Mon	File 44447 (binary contents)	FSK 200/1000	(AB-POL)
F06a	22-9	1230	5872	Mon	File 44447 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	24-9	0600	13947	Wed	File 44161 (binary contents)	FSK 200/1000	(AB)
F06a	24-9	0615	17536	Wed	File 44161 (binary contents)	FSK 200/1000	(AB)
F06a	24-9	0630	18945	Wed	File 44161 (binary contents)	FSK 200/1000	(AB)
F06a	24-9	0700	8183	Wed	File 44450 (binary contents)	FSK 200/1000	(AB)
F06a	24-9	0715	6839	Wed	File 44450 (binary contents)	FSK 200/1000	(AB)
F06a	24-9	0730	5264	Wed	File 44450 (binary contents)	FSK 200/1000	(AB)
F06a	24-9	1200	9188	Wed	File 44450 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	24-9	1215	7673	Wed	File 44450 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	24-9	1230	5872	Wed	File 44450 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	25-9	0600	13947	Thu	File 44161 (binary contents)	FSK 200/1000	(AB)
F06a	25-9	0615	17536	Thu	File 44161 (binary contents)	FSK 200/1000	(AB)
F06a	25-9	0630	18945	Thu	File 44161 (binary contents)	FSK 200/1000	(AB)
F06a	26-9	1900	13835	Fri	File 04446 (binary contents)	FSK 200/1000	(AB)
F06a	26-9	1915	12204	Fri	File 04446 (binary contents)	FSK 200/1000	(AB)
F06a	26-9	1930	11156	Fri	File 04446 (binary contents)	FSK 200/1000	(AB)
F06a	27-9	0300	11452	Sat	File 48432 (binary contents)	FSK 200/1000	(AB)
F06a	27-9	0315	12219	Sat	File 48432 (binary contents)	FSK 200/1000	(AB)
F06a	27-9	0330	14983	Sat	File 48432 (binary contents)	FSK 200/1000	(AB)
F06a	27-9	0600	13386	Sat	File 04446 (binary contents)	FSK 200/1000	(AB)
F06a	27-9	0615	12091	Sat	File 04446 (binary contents)	FSK 200/1000	(AB)
F06a	27-9	0630	11436	Sat	File 04446 (binary contents)	FSK 200/1000	(AB)
F06a	27-9	1600	25252	Sat	File 48432 (binary contents)	FSK 200/1000	(AB)
F06a	27-9	1615	23163	Sat	File 48432 (binary contents)	FSK 200/1000	(AB)
F06a	27-9	1630	20594	Sat	File 48432 (binary contents)	FSK 200/1000	(AB)
F06a	29-9	0700	8183	Mon	File 44453 (binary contents)	FSK 200/1000	(AB-POL)
F06a	29-9	0715	6839	Mon	File 44453 (binary contents)	FSK 200/1000	(AB-POL)
F06a	29-9	0730	5264	Mon	File 44453 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	29-9	1200	9188	Mon	File 44453 (binary contents)	FSK 200/1000	(AB-POL)
F06a	29-9	1215	7673	Mon	File 44453 (binary contents)	FSK 200/1000	(AB-POL)
F06a	29-9	1230	5872	Mon	File 44453 (binary contents)	FSK 200/1000	(AB-FIN)
F07	2-9	2000	16263	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	2-9	2010	15852	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	2-9	2020	14968	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)

[illegible]

F07	25-9	2030	14417	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-9	2040	13478	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-9	2050	12143	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	30-9	2000	16263	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	30-9	2010	15852	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	30-9	2020	14968	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	30-9	2030	14417	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	30-9	2040	13478	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	30-9	2050	12143	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
G06	15-8	1200	10755	Fri	Fast pace, shortened version of common message 975 (R4m) 201 34 94018 49438 88309 ... 62428 59358 39251 201 34 00000	USB	(PY)
KRE	16-9	1205	14300	Tue	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 600/600 LSB	(AB)
KRE	16-9	1209	14300	Tue	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK-ARQ 600/600 LSB	(AB)
KRE	16-9	1228	14300	Tue	DPRK embassy Moscow wkg DPRK embassy Vienna	DPRK-ARQ 600/600 LSB	(AB)
KRE	24-9	0634	14820	Wed	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600/600 LSB	(AB)
KRE	24-9	0653	14200	Wed	DPRK embassy Moscow wkg DPRK embassy Prague	DPRK-ARQ 600/600 LSB	(AB)
KRE	24-9	0657	14300	Wed	DPRK embassy Moscow wkg DPRK embassy Vienna	DPRK-ARQ 600/600 LSB	(AB)
KRE	24-9	0726	14300	Wed	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK-ARQ 600/600 LSB	(AB)
KRE	25-9	0812	15500	Thu	DPRK embassy Moscow wkg DPRK embassy Bucharest	DPRK-ARQ 600/600 LSB	(AB)
KRE	25-9	1253	14820	Thu	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600/600 LSB	(AB)
KRE	25-9	1335	14300	Thu	DPRK embassy Moscow wkg DPRK embassy Sofia	DPRK-ARQ 600/600 LSB	(AB)
KRE	26-9	0705	14300	Fri	DPRK embassy Moscow wkg DPRK embassy Vienna. Data + chat: 1RT OK SK	DPRK-ARQ 600/600 LSB	(AB)
KRE	26-9	0714	14120	Fri	DPRK embassy Warsaw wkg DPRK embassy Moscow. Data + chat: 1RT OK SK CQ 13120 kHz	DPRK-ARQ 600/600 LSB	(AB)
KRE	26-9	0716	13120	Fri	DPRK embassy Moscow wkg DPRK embassy Warsaw. Data + chat: 2RT OK SK	DPRK-ARQ 600/600 LSB	(AB)
KRE	26-9	0802	15500	Fri	DPRK embassy Moscow wkg DPRK embassy Buchares. Data + chat: 2RT OK SK	DPRK-ARQ 600/600 LSB	(AB)
KRE	27-9	0703	16252	Sat	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK-ARQ 600/600 LSB	(AB)
KRE	27-9	0707	16252	Sat	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 1200/600 LSB	(AB)
KRE	27-9	0732	14300	Sat	DPRK embassy Moscow wkg DPRK embassy Warsaw	DPRK-ARQ 1200/600 LSB	(AB)
KRE	27-9	0738	15666	Sat	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK-ARQ 600/600 LSB	(AB)
KRE	27-9	1231	14820	Sat	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600/600 LSB	(AB)
KRE	27-9	1255	14820	Sat	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600/600 LSB	(AB)
KRE	27-9	1257	16252	Sat	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK-ARQ 600/600 LSB	(AB)
KRE	27-9	1337	16252	Sat	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva. Opchat: OK SK and two messages #3091 354 groups and #3092 136 groups	DPRK-ARQ 600/600 LSB	(AB)
KRE	27-9	1348	14820	Sat	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600/600 LSB	(AB)
KRE	27-9	1414	14820	Sat	DPRK embassy Moscow wkg DPRK embassy Rome. Probably a spur of 16252 kHz	DPRK-ARQ 600/600 LSB	(AB)
KRE	27-9	1414	16252	Sat	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600/600 LSB	(AB)
KRE	27-9	1415	14444	Sat	DPRK embassy Moscow wkg DPRK embassy Rome. Probably a spur of 16252 kHz	DPRK-ARQ 600/600 LSB	(AB)
KRE	27-9	1417	14650	Sat	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 1200/600 LSB	(AB)
KRE	27-9	1511	16252	Sat	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK-ARQ 600/600 LSB	(AB)
KRE	29-9	0650	16252	Mon	DPRK embassy Moscow msg 3096 to DPRK Permanent Mission to the UN, Geneva	DPRK-ARQ 600/600 LSB	(AB)

KRE	29-9	0657	14300	Mon	Unid DPRK embassy sends 3 messages to DPRK embassy Moscow	DPRK-ARQ 600/600 LSB	(AB)
KRE	29-9	0700	14300	Mon	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 600/600 LSB	(AB)
KRE	29-9	0822	12050	Mon	DPRK embassy Bucharest wkg DPRK embassy Moscow	DPRK-ARQ 600/600 LSB	(AB)
KRE	29-9	0822	15500	Mon	DPRK embassy Moscow wkg DPRK embassy Bucarest	DPRK-ARQ 600/600 LSB	(AB)
KRE DPR	19-9	0740	14300	Fri	DPRK embassy Moscow wkg DPRK embassy Berlin	K-ARQ 600/600 LSB	(AB)
KRE DPR	19-9	0806	12800	Fri	Unid DPRK embassy wkg DPRK embassy Moscow	K-ARQ 600/600 LSB	(AB)
M01	2-8	0715	9736	Sat	Sent 49 groups. 475 266 266 50 50 = = 15398 61870 81107 ... 51760 99153 15473 = = 266 266 50 50 000	CW	(PY)
M01	3-8	0715	9736	Sun	Sent 49 groups. 475 266 266 50 50 = = 15398 61870 81107 ... 51760 99153 15473 = = 266 266 50 50 000	CW	(PY)
M01	17-8	0722	9736	Sun	i.p. 67319 08904 87933 77312 ... 87906 75643 54321 = = 108 108 50 50 000	CW	(PY)
M01	30-8	0715	9736	Sat	475 257 257 50 50 = 79141 ... 89779 = 257 257 50 50 000	CW	(PY)
M01	2-9	2000	5020	Tue	463 081 081 30 30 = = 54654 76854 86557 ... 76859 96857 76857 = = 081 081 30 30 000	CW	(AB/HFD)
M01	4-9	1800	5475	Thu	463 unreadable	CW	(AB)
M01	4-9	2000	5020	Thu	463 550 550 330 = = 55372 00517 55940 ... 55033 76759 55463 = = 550 550 30 30 000	CW	(AB/HFD)
M01	9-9	2000	5020	Tue	463 643 643 30 30 = = 57678 33545 26376 ... 46658 27658 39868 = = 643 643 30 30 000	CW	(AB)
M01	11-9	1800	5475	Thu	463 051 051 30 = = 43745 (73745) 75483 85743 ... 75847 75849 95783 = = 051 051 30 30 000	CW	(AB-S/HFD)
M01	11-9	2000	5020	Thu	463 052 052 30 30 = = 43458 85547 75847 ... 95847 75867 76857 = = 052 052 30 30 (no closing nulls)	CW	(AB)
M01	13-9	0715	7115	Sat	475 103 103 50 50 = = 31956 01207 73040 ... 38421 98123 87621 = = 103 103 50 50 000	CW	(PY)
M01	13-9	1500	6260	Sat	463 659 659 30 30 = = 65740 85940 34251 ... 06759 55463 07869 = = 659 659 30 30 000	CW	(AB-FIN)
M01	14-9	0700	6510	Sun	463 364 364 30 30 = = 86987 36476 25386 ... 44657 35468 35467 = = 364 364 30 30 000	CW	(AB-FIN/HFD)
M01	14-9	0715	7115	Sun	475 103 103 50 50 = = 31956 01207 73040 ... 38421 98123 87621 = = 103 103 50 50 000	CW	(PY)
M01	16-9	1800	5475	Tue	463 758 758 30 30 = = 53628 76859 54638 ... 07769 65743 87964 = = 758 758 30 30 000	CW	(AB-S)
M01	16-9	2000	5020	Tue	463 453 453 30 30 = = 65748 43520 55302 ... 07841 54631 00785 = = 453 453 30 30 000	CW	(AB)
M01	18-9	1800	5475	Thu	463 704 704 30 30 = = 83901 82759 38992 ... 75890 84903 88590 = = 704 704 30 30 000	CW	(AB-S)
M01	18-9	2000	5020	Thu	463 689 689 30 30 = = 84738 73891 86950 ... 90950 86905 38901 = = 689 689 30 30 000	CW	(AB)
M01	20-9	0715	7115	Sat	475 109 109 50 50 = = 91642 62908 18090 ... 78712 26610 55220 = = 109 109 50 50 000	CW	(PY)
M01	20-9	1500	6260	Sat	463 099 30 30 = = 03948 43854 85547 ... 89543 85948 58943 = = 099 099 30 30 0 0 0	CW	(AB-FIN/Ringo)
M01	21-9	0715	7115	Sun	475 109 109 50 50 = = 91642 62908 18090 ... 78712 26610 55220 = = 109 109 50 50 000	CW	(PY)
M01	23-9	1800	5475	Tue	463 612 612 30 30 = = 14315 38716 26517 ... 40938 50948 56749 = = 612 612 30 30 000	CW	(AB-S)
M01	23-9	2000	5020	Tue	463 701 701 30 30 = = 46537 20917 25276 ... 17819 16526 10971 = = 701 701 30 30 000	CW	(AB)
M01	25-9	1800	5475	Thu	463 372 372 30 30 = = 84930 39280 37289 ... 37289 17163 74831 = = 372 372 30 30 000	CW	(AB-S)
M01	25-9	2000	5020	Thu	6463 229 229 30 30 = = 49028 83901 74891 ... 85901 75847 85948 = = 229 229 30 30 000	CW	(AB)
M01	27-9	1500	6260	Sat	463 463 463 30 30 = = 84091 37201 94038 ... 75849 20218 75841 = = 463 463 30 30 000	CW	(AB-FIN)
M01	28-9	0700	6510	Sun	Sent only 29 groups 463 727 727 30 30 = = 85901 09378 47839 ... 83910 94039 90175 = = 727 727 30 30 000	CW	(AB-POL)
M01	30-9	1800	5475	Tue	463 841 841 30 30 = = 74848 74736 65647 ... 67894 78904 09874 = = 841 841 30 30 000	CW	(AB-S)
M01	30-9	2000	5020	Tue	463 714 714 30 30 = = 99301 98404 80493 ... 84930 24830 80499 714 714 30 30 000	CW	(AB)

M12	1-9	0800	10853	Mon	830 830 830 1 ...	CW	(HFD)
M12	1-9	0820	10273	Mon	830 830 830 1 ...	CW	(PY/HFD)
M12	1-9	0840	9080	Mon	820 820 820 1 3240 101 3240 101 05483 23822 33281 ... 57282 94043 81287 000 000	CW	(PY/HFD)
M12	1-9	1230	13409	Mon	397 397 397 1 4936 143 4936 143 19627 77618 28487 ... 83826 64478 59327 000 000	CW	(PY/HFD)
M12	1-9	1250	12195	Mon	397 397 397 1 4936 143 4936 143 19627 77618 28487 ... 83826 64478 59327 000 000	CW	(PY/HFD)
M12	1-9	1310	11526	Mon	397 397 397 1 4936 143 4936 143 19627 77618 28487 ... 83826 64478 59327 000 000	CW	(PY/HFD)
M12	1-9	2000	11109	Mon	385 385 385 000	CW	(AB/RL/HFD)
M12	1-9	2020	10309	Mon	385 385 385 000	CW	(AB/RL/HFD)
M12	2-9	0300	17437	Tue	495 495 495 1 ...	CW	(HFD-J)
M12	2-9	0320	15937	Tue	495 495 495 1 ...	CW	(HFD-J)
M12	2-9	0340	14537	Tue	495 495 495 1 ...	CW	(HFD-J)
M12	2-9	0630	9324	Tue	826 826 826 1 1931 72 1931 72 50563 12441 90641 ... 59381 64031 67158 000 000	CW	(PY)
M12	2-9	0640	10593	Tue	826 826 826 1 1931 72 1931 72 50563 12441 90641 ... 59381 64031 67158 000 000	CW	(PY)
M12	2-9	0650	11438	Tue	826 826 826 1 1931 72 1931 72 50563 12441 90641 ... 59381 64031 67158 000 000	CW	(PY)
M12	2-9	0715	10713	Tue	657 657 657 000	CW	(PY)
M12	2-9	0725	11568	Tue	657 657 657 000	CW	(PY)
M12	2-9	1100	10713	Tue	657 657 657 1 5730 60 5730 60 10017 74788 86558 ... 31269 51807 47044 000 000	CW	(PY)
M12	2-9	1120	11568	Tue	657 657 657 1 5730 60 5730 60 10017 74788 86558 ... 31269 51807 47044 000 000	CW	(PY)
M12	2-9	1140	12165	Tue	657 657 657 1 5730 60 5730 60 10017 74788 86558 ... 31269 51807 47044 000 000	CW	(PY)
M12	3-9	1900	13367	Wed	315 315 315 000	CW	(AB/RL)
M12	3-9	1900	12135	Wed	573 573 573 1 7854 53 7854 53 20724 80015 35373 ... 23083 91555 07714 000 000	CW	(PY)
M12	3-9	1920	12167	Wed	315 315 315 000	CW	(AB/RL)
M12	3-9	1920	11452	Wed	573 573 573 1 7854 53 7854 53 20724 80015 35373 ... 23083 91555 07714 000 000	CW	(PY)
M12	3-9	1940	10627	Wed	573 573 573 1 7854 53 7854 53 20724 80015 35373 ... 23083 91555 07714 000 000	CW	(PY)
M12	3-9	2310	13368	Wed	311 311 311 1 4831 65 4831 65 37913 79098 15451 ... 56337 79951 68784 000 000	CW	(RL)
M12	3-9	2310	13368	Wed	311 311 311 1 630 157 630 157 76892 34661 48470 ... 23596 41138 10202 000 000	CW	(RL)
M12	3-9	2330	12168	Wed	311 311 311 1 4831 65 4831 65 37913 79098 15451 ... 56337 79951 68784 000 000	CW	(RL)
M12	3-9	2330	12168	Wed	311 311 311 1 630 157 630 157 76892 34661 48470 ... 23596 41138 10202 000 000	CW	(RL)
M12	3-9	2350	11168	Wed	311 311 311 1 4831 65 4831 65 37913 79098 15451 ... 56337 79951 68784 000 000	CW	(RL)
M12	3-9	2350	11168	Wed	311 311 311 1 630 157 630 157 76892 34661 48470 ... 23596 41138 10202 000 000	CW	(RL)
M12	4-9	0755	10624	Thu	687 687 687 1 2227 27 2227 27 64290 17018 71921 ...01681 69468 90170 (55s si- lence) 000 000	CW	(PY)
M12	4-9	1800	11564	Thu	258 258 258 1 8106 78 8106 78 93940 76644 34435 ... 87575 90861 07207 000 000	CW	(PY/HFD)
M12	4-9	1820	10487	Thu	258 258 258 1 8106 78 8106 78 93940 76644 34435 ... 87575 90861 07207 000 000	CW	(PY/HFD)
M12	4-9	1840	9319	Thu	258 258 258 1 8106 78 8106 78 93940 76644 34435 ... 87575 90861 07207 000 000	CW	(PY/HFD)
M12	4-9	2000	11109	Thu	385 385 385 000	CW	(AB/RL)
M12	4-9	2020	10309	Thu	385 385 385 000	CW	(AB/RL)
M12	5-9	0800	10854	Fri	820 820 820 1 3240 101 3240 101 05483 23822 33281 ... 57282 94043 81287 000 000	CW	(AB-KOR)
M12	5-9	0820	10273	Fri	820 820 820 1 3240 101 3240 101 05483 23822 33281 ... 57282 94043 81287 000 000	CW	(AB-KOR)
M12	5-9	0840	9079	Fri	820 820 820 1 3240 101 3240 101 05483 23822 33281 ... 57282 94043 81287 000 000	CW	(AB-KOR)
M12	5-9	1900	13367	Fri	315 315 315 000	CW	(AB/RL)
M12	5-9	1920	12167	Fri	315 315 315 000	CW	(AB/RL)

M12	5-9	2100	9287	Fri	271 271 271 1 8847 101 8847 101 67319 01579 04420 ... 22957 51422 49425 000 000	CW	(AB)
M12	5-9	2100	9287	Fri	271 271 271 1 8847 101 8847 101 67319 01579 04420 ... 22957 51422 49425 000 000	CW	(PY/HFD)
M12	5-9	2120	10728	Fri	271 271 271 1 8847 101 8847 101 67319 01579 04420 ... 22957 51422 49425 000 000	CW	(AB/HFD)
M12	5-9	2120	10768	Fri	271 271 271 1 8847 101 8847 101 67319 01579 04420 ... 22957 51422 49425 000 000	CW	(PY/HFD)
M12	5-9	2140	12198	Fri	271 271 271 1 8847 101 8847 101 67319 01579 04420 ... 22957 51422 49425 000 000	CW	(AB/HFD)
M12	6-9	1900	12135	Sat	573 573 573 1 4482 59 4482 59 63894 44572 16151 ... 36502 34254 63774 000 000	CW	(PY)
M12	6-9	1920	11452	Sat	573 573 573 1 4482 59 4482 59 63894 44572 16151 ... 36502 34254 63774 000 000	CW	(PY)
M12	6-9	1940	10627	Sat	573 573 573 1 4482 59 4482 59 63894 44572 16151 ... 36502 34254 63774 000 000	CW	(PY)
M12	6-9	2100	9287	Sat	271 271 271 1 8847 101 8847 101 67319 01579 04420 ... 22957 51422 49425 000 000	CW	(AB)
M12	6-9	2120	10728	Sat	271 271 271 1 8847 101 8847 101 67319 01579 04420 ... 22957 51422 49425 000 000	CW	(AB)
M12	6-9	2140	12198	Sat	271 271 271 1 8847 101 8847 101 67319 01579 04420 ... 22957 51422 49425 000 000	CW	(AB)
M12	7-9	2310	13368	Sun	311 311 311 1 ...	CW	(HFD)
M12	7-9	2330	12168	Sun	311 311 311 1 ...	CW	(HFD)
M12	7-9	2350	11168	Sun	311 311 311 1 ...	CW	(HFD)
M12	8-9	0800	10854	Mon	820 820 820 1 9139 189 9139 189 33175 42508 49859 ... 96301 18875 39818 000 000	CW	(AB-KOR)
M12	8-9	0820	10273	Mon	820 820 820 1 9139 189 9139 189 33175 42508 49859 ... 96301 18875 39818 000 000	CW	(AB-KOR)
M12	8-9	0840	9079	Mon	820 820 820 1 9139 189 9139 189 33175 42508 49859 ... 96301 18875 39818 000 000	CW	(AB-KOR)
M12	8-9	1230	13409	Mon	397 387 397 1 2743 142 2743 142 15159 21366 65190 ... 13390 03682 55610 000 000	CW	(PY/HFD)
M12	8-9	1250	12195	Mon	397 387 397 1 2743 142 2743 142 15159 21366 65190 ... 13390 03682 55610 000 000	CW	(PY/HFD)
M12	8-9	1310	11526	Mon	397 387 397 1 2743 142 2743 142 15159 21366 65190 ... 13390 03682 55610 000 000	CW	(PY/HFD)
M12	8-9	2000	11109	Mon	385 385 385 1 6393 262 6393 262 84119 03834 27230 ... 94497 41576 09067 000 000	CW	(AB/RL)
M12	8-9	2020	10309	Mon	385 385 385 1 6393 262 6393 262 84119 03834 27230 ... 94497 41576 09067 000 000	CW	(AB/RL)
M12	8-9	2040	9209	Mon	385 385 385 1 6393 262 6393 262 84119 03834 27230 ... 94497 41576 09067 000 000	CW	(AB/RL)
M12	9-9	1100	10713	Tue	657 657 657 1 6993 57 6993 57 19762 16075 95336 ... 37782 91278 70860 000 000	CW	(PY)
M12	9-9	1120	11568	Tue	657 657 657 1 6993 57 6993 57 19762 16075 95336 ... 37782 91278 70860 000 000	CW	(PY)
M12	9-9	1140	12165	Tue	657 657 657 1 6993 57 6993 57 19762 16075 95336 ... 37782 91278 70860 000 000	CW	(PY)
M12	10-9	1900	13367	Wed	315 315 315 1 5122 179 5122 179 12513 87327 45992 ... 04946 33331 80392 000 000	CW	(AB)
M12	10-9	1900	12135	Wed	573 573 573 1 1663 56 1663 56 13622 44593 51009 ... 25690 00518 66154 000 000	CW	(TM)
M12	10-9	1920	12167	Wed	315 315 315 1 5122 179 5122 179 12513 87327 45992 ... 04946 33331 80392 000 000	CW	(AB)
M12	10-9	1920	11452	Wed	573 573 573 1 1663 56 1663 56 13622 44593 51009 ... 25690 00518 66154 000 000	CW	(TM)
M12	10-9	1940	10567	Wed	315 315 315 1 5122 179 5122 179 12513 87327 45992 ... 04946 33331 80392 000 000	CW	(AB)
M12	10-9	1940	10627	Wed	573 573 573 1 1663 56 1663 56 13622 44593 51009 ... 25690 00518 66154 000 000	CW	(TM)
M12	11-9	1800	11564	Thu	258 258 258 1 3472 83 3472 83 99923 83002 56061 ... 27433 21411 61143 000 000	CW	(PY)
M12	11-9	1820	10487	Thu	258 258 258 1 3472 83 3472 83 99923 83002 56061 ... 27433 21411 61143 000 000	CW	(PY)
M12	11-9	1840	9319	Thu	258 258 258 1 3472 83 3472 83 99923 83002 56061 ... 27433 21411 61143 000 000	CW	(PY)
M12	11-9	2000	11109	Thu	385 385 385 1 6393 262 6393 262 84119 03834 27230 ... 94497 41576 09067 000 000	CW	(AB/RL)
M12	11-9	2020	10309	Thu	385 385 385 1 6393 262 6393 262 84119 03834 27230 ... 94497 41576 09067 000 000	CW	(AB/RL)
M12	11-9	2040	9209	Thu	385 385 385 1 6393 262 6393 262 84119 03834 27230 ... 94497 41576 09067 000 000	CW	(AB/RL)
M12	12-9	0800	10854	Fri	820 820 820 1 9139 189 9139 189 33175 42508 49859 ... 96301 18875 39818 000 000	CW	(AB-KOR)
M12	12-9	0800	9445	Fri	687 687 687 1 2065 30 2065 30 69589 03530 45714 ... 91800 03575 57955 000 000	CW	(PY)
M12	12-9	0810	9702	Fri	687 687 687 1 2065 30 2065 30 69589 03530 45714 ... 91800 03575 57955 000 000	CW	(PY)
M12	12-9	0820	10273	Fri	820 820 820 1 9139 189 9139 189 33175 42508 49859 ... 96301 18875 39818 000 000	CW	(AB-KOR)

M12	12-9	0820	10250	Fri	687 687 687 1 2065 30 2065 30 69589 03530 45714 ... 91800 03575 57955 000 000	CW	(PY)
M12	12-9	0840	9079	Fri	820 820 820 1 9139 189 9139 189 33175 42508 49859 ... 96301 18875 39818 000 000	CW	(AB-KOR)
M12	12-9	1900	13367	Fri	315 315 315 1 5122 179 5122 179 12513 87327 45992 ... 04946 33331 80392 000 000	CW	(AB)
M12	12-9	1920	12167	Fri	315 315 315 1 5122 179 5122 179 12513 87327 45992 ... 04946 33331 80392 000 000	CW	(AB)
M12	12-9	1940	10567	Fri	315 315 315 1 5122 179 5122 179 12513 87327 45992 ... 04946 33331 80392 000 000	CW	(AB)
M12	12-9	2100	9287	Fri	271 271 271 1 3070 145 3070 145 54069 47603 62815 ... 69310 09610 03409 000 000	CW	(AB)
M12	12-9	2120	10728	Fri	271 271 271 1 3070 145 3070 145 54069 47603 62815 ... 69310 09610 03409 000 000	CW	(AB)
M12	12-9	2140	12198	Fri	271 271 271 1 3070 145 3070 145 54069 47603 62815 ... 69310 09610 03409 000 000	CW	(AB)
M12	13-9	1900	12135	Sat	573 573 573 1 4976 59 4976 59 08602 13617 41853 ... 89594 69659 91289 000 000	CW	(AB)
M12	13-9	1920	11452	Sat	573 573 573 1 4976 59 4976 59 08602 13617 41853 ... 89594 69659 91289 000 000	CW	(AB)
M12	13-9	1940	10627	Sat	573 573 573 1 4976 59 4976 59 08602 13617 41853 ... 89594 69659 91289 000 000	CW	(AB)
M12	13-9	2100	9287	Sat	271 271 271 1 3070 145 3070 145 54069 47603 62815 ... 69310 09610 03409 000 000	CW	(AB)
M12	13-9	2120	10728	Sat	271 271 271 1 3070 145 3070 145 54069 47603 62815 ... 69310 09610 03409 000 000	CW	(AB)
M12	13-9	2140	12198	Sat	271 271 271 1 3070 145 3070 145 54069 47603 62815 ... 69310 09610 03409 000 000	CW	(AB)
M12	14-9	2310	13368	Sun	311 311 311 1 4831 65 4831 65 37913 79098 15451 ... 56337 79951 68784 000 000	USB	(RL)
M12	14-9	2330	12168	Sun	311 311 311 1 4831 65 4831 65 37913 79098 15451 ... 56337 79951 68784 000 000	USB	(RL)
M12	14-9	2350	11168	Sun	311 311 311 1 4831 65 4831 65 37913 79098 15451 ... 56337 79951 68784 000 000	USB	(RL)
M12	15-9	0800	10854	Mon	820 820 820 1 5166 133 5166 133 10692 98851 95412 ... 96842 18547 49077 000 000	CW	(AB-KOR)
M12	15-9	0820	10273	Mon	820 820 820 1 5166 133 5166 133 10692 98851 95412 ... 96842 18547 49077 000 000	CW	(AB-KOR)
M12	15-9	0840	9079	Mon	820 820 820 1 5166 133 5166 133 10692 98851 95412 ... 96842 18547 49077 000 000	CW	(AB-KOR)
M12	15-9	2000	11109	Mon	385 385 385 1 6393 262 6393 262 84119 03834 27230 ... 94497 41576 09067 000 000	CW	(AB/RL)
M12	15-9	2020	10309	Mon	385 385 385 1 6393 262 6393 262 84119 03834 27230 ... 94497 41576 09067 000 000	CW	(AB/RL)
M12	15-9	2040	9209	Mon	385 385 385 1 6393 262 6393 262 84119 03834 27230 ... 94497 41576 09067 000 000	CW	(AB/RL)
M12	16-9	0300	17437	Tue	495 495 495 1 125 ____ 125 ____ ***6***172 61331... 77322 33898 52064 000 000	CW	(Ringo)
M12	16-9	0320	15937	Tue	495 495 495 1 125 ____ 125 ____ ***6***172 61331... 77322 33898 52064 000 000	CW	(Ringo)
M12	16-9	0340	14537	Tue	495 495 495 1 125 ____ 125 ____ ***6***172 61331... 77322 33898 52064 000 000	CW	(Ringo)
M12	16-9	1100	10713	Tue	657 657 657 1 6437 58 6437 58 12055 64945 13995 ... 30264 70196 03354 000 000	CW	(AB/HFD)
M12	16-9	1120	11568	Tue	657 657 657 1 6437 58 6437 58 12055 64945 13995 ... 30264 70196 03354 000 000	CW	(AB/HFD)
M12	16-9	1140	12165	Tue	657 657 657 1 6437 58 6437 58 12055 64945 13995 ... 30264 70196 03354 000 000	CW	(AB/HFD)
M12	17-9	0900	11497	Wed	687 687 687 1 4425 59 4425 59 32349 85353 03693 ... 33445 33936 93784 000 000	CW	(PY)
M12	17-9	0910	12193	Wed	687 687 687 1 4425 59 4425 59 32349 85353 03693 ... 33445 33936 93784 000 000	CW	(PY)
M12	17-9	0920	13389	Wed	687 687 687 1 4425 59 4425 59 32349 85353 03693 ... 33445 33936 93784 000 000	CW	(PY)
M12	17-9	1900	13367	Wed	315 315 315 000	CW	(AB)
M12	17-9	1900	12135	Wed	573 573 573 1 6449 57 6449 57 65525 04008 07963 ... 00689 34470 43943 000 000	CW	(AB/HFD)
M12	17-9	1920	12167	Wed	315 315 315 000	CW	(AB)
M12	17-9	1920	11452	Wed	573 573 573 1 6449 57 6449 57 65525 04008 07963 ... 00689 34470 43943 000 000	CW	(AB/HFD)
M12	17-9	1940	10627	Wed	573 573 573 1 6449 57 6449 57 65525 04008 07963 ... 00689 34470 43943 000 000	CW	(AB/HFD)
M12	17-9	2310	13368	Wed	311 311 311 1 842 87 842 87 71762 13472 92903 ... 21641 69816 61671 000 000	CW	(AB)
M12	17-9	2330	12168	Wed	311 311 311 1 842 87 842 87 71762 13472 92903 ... 21641 69816 61671 000 000	CW	(AB)
M12	17-9	2350	11168	Wed	311 311 311 1 842 87 842 87 71762 13472 92903 ... 21641 69816 61671 000 000	CW	(AB)
M12	18-9	1800	11564	Thu	258 258 258 1 9469 76 9469 76 47003 46054 44636 ... 63416 74447 36051 000 000	CW	(AB)
M12	18-9	1820	10487	Thu	258 258 258 1 9469 76 9469 76 47003 46054 44636 ... 63416 74447 36051 000 000	CW	(AB)

M12	18-9	1840	9319	Thu	258 258 258 1 9469 76 9469 76 47003 46054 44636 ... 63416 74447 36051 000 000	CW	(AB)
M12	18-9	2000	11109	Thu	385 385 385 1 6393 262 6393 262 84119 03834 27230 ... 94497 41576 09067 000 000	CW	(AB/RL)
M12	18-9	2020	10309	Thu	385 385 385 1 6393 262 6393 262 84119 03834 27230 ... 94497 41576 09067 000 000	CW	(AB/RL)
M12	18-9	2040	9209	Thu	385 385 385 1 6393 262 6393 262 84119 03834 27230 ... 94497 41576 09067 000 000	CW	(AB/RL)
M12	19-9	0800	10854	Fri	820 820 820 1 5166 133 5166 133 10692 98851 95412 ... 96842 18547 49077 000 000	CW	(AB-KOR)
M12	19-9	0820	10273	Fri	820 820 820 1 5166 133 5166 133 10692 98851 95412 ... 96842 18547 49077 000 000	CW	(AB-KOR)
M12	19-9	0840	9079	Fri	820 820 820 1 5166 133 5166 133 10692 98851 95412 ... 96842 18547 49077 000 000	CW	(AB-KOR)
M12	19-9	1900	13367	Fri	315 315 315 000	CW	(AB)
M12	19-9	1920	12167	Fri	315 315 315 000	CW	(AB)
M12	19-9	2100	9287	Fri	271 271 271 1 3070 145 3070 145 54069 47603 62815 ... 69310 09610 03409 000 000	CW	(AB)
M12	19-9	2120	10728	Fri	271 271 271 1 3070 145 3070 145 54069 47603 62815 ... 69310 09610 03409 000 000	CW	(AB)
M12	19-9	2140	12198	Fri	271 271 271 1 3070 145 3070 145 54069 47603 62815 ... 69310 09610 03409 000 000	CW	(AB)
M12	20-9	1900	12135	Sat	573 573 573 1 3014 58 3014 58 11584 27572 65134 ... 51376 88050 12632 000 000	CW	(AB)
M12	20-9	1920	11452	Sat	573 573 573 1 3014 58 3014 58 11584 27572 65134 ... 51376 88050 12632 000 000	CW	(AB)
M12	20-9	1940	10627	Sat	573 573 573 1 3014 58 3014 58 11584 27572 65134 ... 51376 88050 12632 000 000	CW	(AB)
M12	20-9	2100	9287	Sat	271 271 271 1 3070 145 3070 145 54069 47603 62815 ... 69310 09610 03409 000 000	CW	(AB)
M12	20-9	2120	10728	Sat	271 271 271 1 3070 145 3070 145 54069 47603 62815 ... 69310 09610 03409 000 000	CW	(AB)
M12	20-9	2140	12198	Sat	271 271 271 1 3070 145 3070 145 54069 47603 62815 ... 69310 09610 03409 000 000	CW	(AB)
M12	21-9	2310	13368	Sun	311 311 311 1 842 87 71672 13742 92903 ... 21641 79816 61671 000 000	CW	(RL)
M12	21-9	2330	12168	Sun	311 311 311 1 842 87 71672 13742 92903 ... 21641 79816 61671 000 000	CW	(RL)
M12	21-9	2350	11168	Sun	311 311 311 1 842 87 71672 13742 92903 ... 21641 79816 61671 000 000	CW	(RL)
M12	22-9	0800	10854	Mon	820 820 820 1 6796 87 6796 87 19692 96615 86062 ... 43799 37845 19414 000 000	CW	(AB-KOR)
M12	22-9	0820	10273	Mon	820 820 820 1 6796 87 6796 87 19692 96615 86062 ... 43799 37845 19414 000 000	CW	(AB-KOR)
M12	22-9	0840	9079	Mon	820 820 820 1 6796 87 6796 87 19692 96615 86062 ... 43799 37845 19414 000 000	CW	(AB-KOR)
M12	22-9	2000	11109	Mon	385 385 385 000	CW	(AB/RL)
M12	22-9	2020	10309	Mon	385 385 385 000	CW	(AB/RL)
M12	23-9	1100	10713	Tue	657 657 657 1 6085 55 6085 55 52923 88554 87146 ... 53632 69451 10140 000 000	CW	(AB)
M12	23-9	1120	11568	Tue	657 657 657 1 6085 55 6085 55 52923 88554 87146 ... 53632 69451 10140 000 000	CW	(AB)
M12	23-9	1140	12165	Tue	657 657 657 1 6085 55 6085 55 52923 88554 87146 ... 53632 69451 10140 000 000	CW	(AB)
M12	24-9	1900	12135	Wed	573 573 573 1 3075 58 3075 58 17372 37028 50329 ... 50014 14031 76432 000 000	CW	(AB)
M12	24-9	1900	13367	Wed	315 315 315 1 8767 199 8067 199 14673 62504 39473 ... 64360 06357 32281 000 000	CW	(AB)
M12	24-9	1920	11452	Wed	573 573 573 1 3075 58 3075 58 17372 37028 50329 ... 50014 14031 76432 000 000	CW	(AB)
M12	24-9	1920	12167	Wed	315 315 315 1 8767 199 8067 199 14673 62504 39473 ... 64360 06357 32281 000 000	CW	(AB)
M12	24-9	1940	10567	Wed	315 315 315 1 8767 199 8067 199 14673 62504 39473 ... 64360 06357 32281 000 000	CW	(AB)
M12	24-9	1940	10627	Wed	573 573 573 1 3075 58 3075 58 17372 37028 50329 ... 50014 14031 76432 000 000	CW	(AB)
M12	24-9	2310	13368	Wed	311 311 311 1 9407 199 9407 199 10090 71471 23995 ... 22259 74751 37288 000 000	CW	(RL)
M12	24-9	2330	12168	Wed	311 311 311 1 9407 199 9407 199 10090 71471 23995 ... 22259 74751 37288 000 000	CW	(RL)
M12	24-9	2350	11168	Wed	311 311 311 1 9407 199 9407 199 10090 71471 23995 ... 22259 74751 37288 000 000	CW	(RL)
M12	25-9	1800	11564	Thu	258 258 258 1 2975 75 2975 75 10850 54424 66362 ... 83525 07829 94922 000 000	CW	(AB)
M12	25-9	1820	10487	Thu	258 258 258 1 2975 75 2975 75 10850 54424 66362 ... 83525 07829 94922 000 000	CW	(AB)
M12	25-9	1840	9319	Thu	258 258 258 1 2975 75 2975 75 10850 54424 66362 ... 83525 07829 94922 000 000	CW	(AB)
M12	25-9	2000	11109	Thu	385 385 385 000	CW	(AB/RL)

M12	25-9	2020	10309	Thu	385 385 385 000	CW	(AB/RL)
M12	25-9	2120	10728	Thu	271 271 271 1 5094 195 5094 195 42791 40874 01361 ... 62139 48216 67903 000 000	CW	(AB)
M12	26-9	0800	10854	Fri	820 820 820 1 6796 87 6796 87 19692 96615 86062 ... 43799 37845 19414 000 000	CW	(AB-KOR)
M12	26-9	0820	10273	Fri	820 820 820 1 6796 87 6796 87 19692 96615 86062 ... 43799 37845 19414 000 000	CW	(AB-KOR)
M12	26-9	0840	9079	Fri	820 820 820 1 6796 87 6796 87 19692 96615 86062 ... 43799 37845 19414 000 000	CW	(AB-KOR)
M12	26-9	1900	13367	Fri	315 315 315 1 8767 199 8067 199 14673 62504 39473 ... 64360 06357 32281 000 000	CW	(AB)
M12	26-9	1920	12167	Fri	315 315 315 1 8767 199 8067 199 14673 62504 39473 ... 64360 06357 32281 000 000	CW	(AB)
M12	26-9	1940	10567	Fri	315 315 315 1 8767 199 8067 199 14673 62504 39473 ... 64360 06357 32281 000 000	CW	(AB)
M12	26-9	2100	9287	Fri	271 271 271 1 5094 195 5094 195 42791 40874 01361 ... 62139 48216 67903 000 000	CW	(AB)
M12	26-9	2140	12198	Fri	271 271 271 1 5094 195 5094 195 42791 40874 01361 ... 62139 48216 67903 000 000	CW	(AB)
M12	27-9	1900	12135	Sat	573 573 573 1 2536 56 2536 56 37059 04886 03658 ... 89477 94557 55584 000 000	CW	(AB)
M12	27-9	1920	11452	Sat	573 573 573 1 2536 56 2536 56 37059 04886 03658 ... 89477 94557 55584 000 000	CW	(AB)
M12	27-9	1940	10627	Sat	573 573 573 1 2536 56 2536 56 37059 04886 03658 ... 89477 94557 55584 000 000	CW	(AB)
M12	27-9	2100	9287	Sat	271 271 271 1 5094 195 5094 195 42791 40874 01361 ... 62139 48216 67903 000 000	CW	(AB)
M12	27-9	2120	10728	Sat	271 271 271 1 5094 195 5094 195 42791 40874 01361 ... 62139 48216 67903 000 000	CW	(AB/RL)
M12	27-9	2140	12198	Sat	271 271 271 1 5094 195 5094 195 42791 40874 01361 ... 62139 48216 67903 000 000	CW	(AB/RL)
M12	29-9	0800	10854	Mon	820 820 820 1 9488 178 9488 178 60912 92196 16916 ... 99388 16561 95456 000 000	CW	(AB-KOR)
M12	29-9	0820	10273	Mon	820 820 820 1 9488 178 9488 178 60912 92196 16916 ... 99388 16561 95456 000 000	CW	(AB-KOR)
M12	29-9	0840	9079	Mon	820 820 820 1 9488 178 9488 178 60912 92196 16916 ... 99388 16561 95456 000 000	CW	(AB-KOR)
M12	29-9	2000	11109	Mon	385 385 385 000	CW	(AB)
M12	29-9	2020	10309	Mon	385 385 385 000	CW	(AB)
M12	30-9	1100	10713	Tue	657 657 657 1 3579 64 3579 64 66824 07065 40402 ... 27715 64491 59286 000 000	CW	(AB)
M12	30-9	1120	11568	Tue	657 657 657 1 3579 64 3579 64 66824 07065 40402 ... 27715 64491 59286 000 000	CW	(AB)
M12	30-9	1140	12165	Tue	657 657 657 1 3579 64 3579 64 66824 07065 40402 ... 27715 64491 59286 000 000	CW	(AB)
M14	12-8	1130	9463	Tue	801 801 [slow beeps] 801 [8s silence] 801 (R40s) 8 [10m silence] 51 87135 62674 [2m50s silence] 94018 49438 88309 898 [no further activity]	CW	(PY)
M14	16-8	1000	9463	Sat	801 (R4m) 203 55 203 55 = = 49438 88309 89844 ... 16309 33827 95091 36666 = 203 55 00000	CW	(PY)
M14	20-8	0805	9463	Wed	801 (R1m5s) 80 [1m20s silence] 1 801 801 801 [8s silence] 801 (R35s) 80 [8m15s silence] 801 (R50s) 8 [2m35s silence] 801 (R50s) 80 [no further activity]	CW	(PY)
M14	24-8	0836	9463	Sun	801 759 759 54 54 = = 94018 49438 88309 ... 801 801 801 00000 801 801 [no further activity]	CW	(PY)
M14	1-9	0500	12211	Mon	952 748 748 51 51 = = 03859 48110 83602 ... 88816 98148 80760 = = 748 748 51 51 00000	CW	(HFD-J)
M14	1-9	0520	10243	Mon	952 748 748 51 51 = = 03859 48110 83602 ... 88816 98148 80760 = = 748 748 51 51 00000	CW	(AB-J/HFD-J)
M14	2-9	0500	12211	Tue	952 748 748 51 51 = = 03859 48110 83602 ... 88816 98148 80760 = = 748 748 51 51 00000	CW	(AB-J)
M14	2-9	0520	10243	Tue	952 748 748 51 51 = = 03859 48110 83602 ... 88816 98148 80760 = = 748 748 51 51 00000	CW	(AB-J)

M14	3-9	0500	12211	Wed	952 316 316 23 23 = = 19648 41690 46479 ... 10847 89472 07520 = = 316 316 23 23 952 874 874 29 29 = = 93035 24497 09611 ... 66679 78043 65260 = = 874 874 29 29 00000	CW	(AB-J)
M14	3-9	0520	10243	Wed	952 316 316 23 23 = = 19648 41690 46479 ... 10847 89472 07520 = = 316 316 23 23 952 874 874 29 29 = = 93035 24497 09611 ... 66679 78043 65260 = = 874 874 29 29 00000	CW	(AB-J)
M14	4-9	0500	12211	Thu	952 316 316 23 23 = = 19648 41690 46479 ... 10847 89472 07520 = = 316 316 23 23 952 874 874 29 29 = = 93035 24497 09611 ... 66679 78043 65260 = = 874 874 29 29 00000	CW	(AB-J)
M14	4-9	0520	10243	Thu	952 316 316 23 23 = = 19648 41690 46479 ... 10847 89472 07520 = = 316 316 23 23 952 874 874 29 29 = = 93035 24497 09611 ... 66679 78043 65260 = = 874 874 29 29 00000	CW	(AB-J)
M14	5-9	0500	12211	Fri	952 952 952 00000	CW	(AB-J)
M14	5-9	0520	10243	Fri	952 952 952 00000	CW	(AB-J)
M14	8-9	0507	12211	Mon	Late start. 95 off	CW	(AB-J)
M14	8-9	0522	10243	Mon	Late start. Inverted morse. Several restarts. Normal morse at 0528z: 601 601 EEEEE, 18sec silence, 601 EEEEE, 13sec silence, 601 601 57 57 = = 09734 03695 42546 ... briefly inverted morse at 0531z, then off.	CW	(AB-J)
M14	9-9	0500	12211	Tue	952 601 601 57 57 = = 09734 03695 42546 ... 06901 97100 72296 = = 601 601 57 57 00000	CW	(AB-J)
M14	9-9	0520	10243	Tue	952 601 601 57 57 = = 09734 03695 42546 ... 06901 97100 72296 = = 601 601 57 57 00000	CW	(AB-J)
M14	10-9	0500	12211	Wed	952 170 170 27 27 = = 50474 23885 44203 ... 17748 25344 54621 = = 170 170 27 27 952 483 483 25 25 = = 25785 14011 72868 ... 32718 13783 95758 = = 483 483 25 25 (no closing nulls). Sent 28 groups in th	CW	(AB-J)
M14	10-9	0520	10243	Wed	952 170 170 27 27 = = 50474 23885 44203 ... 17748 25344 54621 = = 170 170 27 27 952 483 483 25 25 = = 25785 14011 72868 ... 32718 13783 95758 = = 483 483 25 25 00000. Sent 28 groups in the first messa	CW	(AB-J)
M14	11-9	0500	12211	Thu	952 170 170 27 27 = = 50474 23885 44203 ... 17748 25344 54621 = = 170 170 27 27 952 483 483 25 25 = = 25785 14011 72868 ... 32718 13783 95758 = = 483 483 25 25 00000. Sent 28 groups in the first messa	CW	(AB-J)
M14	11-9	0520	10243	Thu	952 170 170 27 27 = = 50474 23885 44203 ... 17748 25344 54621 = = 170 170 27 27 952 483 483 25 25 = = 25785 14011 72868 ... 32718 13783 95758 = = 483 483 25 25 00000. Sent 28 groups in the first messa	CW	(AB-J)
M14	12-9	0500	12211	Fri	952 952 952 00000	CW	(AB-J)
M14	12-9	0520	10243	Fri	952 952 952 00000	CW	(AB-J)
M14	15-9	0500	12211	Mon	No transmission	CW	(AB-J)
M14	15-9	0520	10243	Mon	952 368 368 50 50 = = 92466 76387 28697 ... 82080 27065 53701 = = 368 368 50 50 00000	CW	(AB-J)
M14	16-9	0500	12211	Tue	952 368 368 50 50 = = 92466 76387 28697 ... 82080 27065 53701 = = 368 368 50 50 00000	CW	(AB-J)
M14	16-9	0520	10243	Tue	952 368 368 50 50 = = 92466 76387 28697 ... 82080 27065 53701 = = 368 368 50 50 00000	CW	(AB-J)

M14	16-9	0840	9463	Tue	801 message (barely audible)	CW	(PY)
M14	16-9	0841	9463	Tue	801 (R4m) 793 793 52 52 = = ... 70194 = = 793 793 52 52 = =	CW	(PY)
M14	17-9	0500	12211	Wed	952 470 470 38 38 = = 00825 49106 45425 ... 35410 44996 66316 = = 470 470 38 38 952 618 618 20 20 = = 54423 15913 78062 ... 32709 07470 21375 = = 618 618 20 20 00000	CW	(AB-J)
M14	17-9	0520	10243	Wed	No transmission	CW	(AB-J)
M14	18-9	0500	12211	Thu	952 470 470 38 38 = = 00825 49106 45425 ... 35410 44996 66316 = = 470 470 38 38 952 618 618 20 20 = = 54423 15913 78062 ... 32709 07470 21375 = = 618 618 20 20 00000	CW	(AB-J)
M14	18-9	0520	10243	Thu	952 470 470 38 38 = = 00825 49106 45425 ... 35410 44996 66316 = = 470 470 38 38 952 618 618 20 20 = = 54423 15913 78062 ... 32709 07470 21375 = = 618 618 20 20 00000	CW	(AB-J)
M14	19-9	0500	12211	Fri	Not monitored	CW	(AB-J)
M14	19-9	0520	10243	Fri	952 952 952 00000	CW	(AB-J)
M14	22-9	0500	12211	Mon	Unreadable inverted morse	CW	(AB-J)
M14	22-9	0520	10243	Mon	Inverted morse. Stopped, carrier at 0522z. Off at 0524z. Several unsuccessful restarts between 0526 and 0530z, then off. Brief carrier at 0535z.	CW	(AB-J)
M14	23-9	0500	12211	Tue	952 374 374 50 50 = = 59473 95219 61636 ... 67075 80841 61174 = = 374 374 50 50 00000	CW	(AB-J)
M14	23-9	0520	10243	Tue	952 374 374 50 50 = = 59473 95219 61636 ... 67075 80841 61174 = = 374 374 50 50 00000	CW	(AB-J)
M14	24-9	0500	12211	Wed	952 137 137 20 20 = = 18016 86933 26564 ... 04502 69795 90427 = = 137 137 20 20 952 608 608 37 37 = = 27964 17385 37180 ... 84906 58836 75733 = = 608 608 37 37 00000	CW	(AB-J)
M14	24-9	0520	10243	Wed	952 137 137 20 20 = = 18016 86933 26564 ... 04502 69795 90427 = = 137 137 20 20 952 608 608 37 37 = = 27964 17385 37180 ... 84906 58836 75733 = = 608 608 37 37 00000	CW	(AB-J)
M14	25-9	0500	12211	Thu	952 137 137 20 20 = = 18016 86933 26564 ... 04502 69795 90427 = = 137 137 20 20 952 608 608 37 37 = = 27964 17385 37180 ... 84906 58836 75733 = = 608 608 37 37 00000	CW	(AB-J)
M14	25-9	0520	10243	Thu	952 137 137 20 20 = = 18016 86933 26564 ... 04502 69795 90427 = = 137 137 20 20 952 608 608 37 37 = = 27964 17385 37180 ... 84906 58836 75733 = = 608 608 37 37 00000	CW	(AB-J)
M14	26-9	0500	12211	Fri	952 952 952 00000	CW	(AB-J)
M14	26-9	0520	10243	Fri	952 952 952 00000	CW	(AB-J)
M14	26-9	1100	10755	Fri	Fast beeps	CW	(PY)
M14	26-9	1102	10755	Fri	975 (R3m30s) 243 243 60 60 = = 37556 48428 33959 ... 56755 56678 41776 = = 243 243 60 60 00000	CW	(PY)
M14	26-9	1110	10755	Fri	975 243 243 60 60 = = 37556 48428 33959 ... 56755 56678 41776 = = 243 243 60 60 00000	CW	(PY)
M14	29-9	0500	12211	Mon	952 840 840 53 53 = = 13462 93645 67837 ... 07861 63603 77123 = = 840 840 53 53 00000	CW	(AB-J)

M14	29-9	0520	10243	Mon	952 840 840 53 53 = = 13462 93645 67837 ... 07861 63603 77123 = = 840 840 53 53 00000	CW	(AB-J)
M14	30-9	0500	12211	Tue	952 840 840 53 53 = = 13462 93645 67837 ... 07861 63603 77123 = = 840 840 53 53 00000	CW	(AB-J)
M14	30-9	0520	10243	Tue	952 840 840 53 53 = = 13462 93645 67837 ... 07861 63603 77123 = = 840 840 53 53 00000	CW	(AB-J)
M23	3-9	0847	7441	Wed	50505 55550 05550 05500 55005 (R 25m)	CW	(PY)
M23	23-9	1500	12170	Tue	8 (R16m)	CW	(AB)
M23	23-9	1520	12170	Tue	8 (R16m)	CW	(AB)
M23	23-9	1540	12170	Tue	8 (R16m)	CW	(AB)
M23	23-9	1600	12170	Tue	8 (R16m)	CW	(AB)
M23	23-9	1620	12170	Tue	8 (R16m)	CW	(AB)
M23	23-9	1640	12170	Tue	8 (R16m)	CW	(AB)
M23	24-9	1500	12170	Wed	8 (R16m)	CW	(AB)
M23	24-9	1520	12170	Wed	8 (R16m)	CW	(AB)
M23	24-9	1540	12170	Wed	8 (R16m)	CW	(AB)
M23	24-9	1600	12170	Wed	8 (R16m)	CW	(AB)
M23	24-9	1620	12170	Wed	8 (R16m)	CW	(AB)
M23	24-9	1640	12170	Wed	8 (R16m)	CW	(AB)
M23	25-9	1500	12170	Thu	8 (R16m)	CW	(AB)
M23	25-9	1520	12170	Thu	8 (R16m)	CW	(AB)
M23	25-9	1540	12170	Thu	8 (R16m)	CW	(AB)
M23	25-9	1600	12170	Thu	8 (R16m)	CW	(AB)
M23	25-9	1620	12170	Thu	8 (R16m)	CW	(AB)
M23	25-9	1640	12170	Thu	8 (R16m)	CW	(AB)
M23	26-9	1500	12170	Fri	8 (R16m)	CW	(AB)
M23	26-9	1520	12170	Fri	8 (R16m)	CW	(AB)
M23	26-9	1540	12170	Fri	8 (R16m)	CW	(AB)
M23	26-9	1600	12170	Fri	8 (R16m)	CW	(AB)
M23	26-9	1620	12170	Fri	8 (R16m)	CW	(AB)
M23	26-9	1640	12170	Fri	8 (R16m)	CW	(AB)
M23	27-9	1500	12170	Sat	8 (R16m)	CW	(AB)
M23	27-9	1520	12170	Sat	8 (R16m)	CW	(AB)
M23	27-9	1540	12170	Sat	8 (R16m)	CW	(AB)
M23	27-9	1600	12170	Sat	8 (R16m)	CW	(AB)
M23	27-9	1620	12170	Sat	8 (R16m)	CW	(AB)
M23	27-9	1640	12170	Sat	8 (R16m)	CW	(AB)
M23	28-9	1500	12170	Sun	8 (R16m)	CW	(AB)
M23	28-9	1520	12170	Sun	8 (R16m)	CW	(AB)
M23	28-9	1540	12170	Sun	8 (R16m)	CW	(AB)
M23	28-9	1600	12170	Sun	8 (R16m)	CW	(AB)
M23	28-9	1620	12170	Sun	8 (R16m)	CW	(AB)

M23	28-9	1640	12170	Sun	8 (R16m)	CW	(AB)
M23	29-9	1500	12170	Mon	8 (R16m)	CW	(AB)
M23	29-9	1520	12170	Mon	8 (R16m)	CW	(AB)
M23	29-9	1540	12170	Mon	8 (R16m)	CW	(AB)
M23	29-9	1600	12170	Mon	8 (R16m)	CW	(AB)
M23	29-9	1620	12170	Mon	8 (R16m)	CW	(AB)
M23	29-9	1640	12170	Mon	8 (R16m)	CW	(AB)
M23	30-9	1500	12170	Tue	8 (R16m)	CW	(AB)
M23	30-9	1520	12170	Tue	8 (R16m)	CW	(AB)
M23	30-9	1540	12170	Tue	8 (R16m)	CW	(AB)
M23	30-9	1600	12170	Tue	8 (R16m)	CW	(AB)
M23	30-9	1620	12170	Tue	8 (R16m)	CW	(AB)
M23	30-9	1640	12170	Tue	8 (R16m)	CW	(AB)
M42	4-9	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. Msg header: 11100 70103 92456 04118 04009	FSK 75/500	(AB)
M42	9-9	0755	13420	Tue	Russian diplo	Serdolik v2	(AB)
M42	9-9	0756	13420	Tue	Russian diplo	Serdolik v2	(Moon)
M42	11-9	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. Msg header: 11100 70103 15948 11121 04009	FSK 75/500	(AB)
M42	11-9	1300	18726	Thu	UAG: Russian embassy Havan wkg UAL: MFA Moscow. Havana was too weak to copy	FSK 75/500	(AB)
M42	12-9	0644	11156	Fri	Russian diplo. Selcal	Serdolik v2	(AB)
M42	12-9	0645	11158	Fri	Russian diplo	Serdolik v2	(AB)
M42	12-9	0820	9357	Fri	Russian diplo	MFSK-66	(AB)
M42	12-9	0829	10431	Fri	Russian diplo	MFSK-66	(AB)
M42	12-9	0830	9357	Fri	Russian diplo	MFSK-66	(AB)
M42	16-9	0822	13400	Tue	Russian diplo	MFSK-66	(AB/Moon)
M42	18-9	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. Message header: 11100 70103 83156 18126 04009	FSK 75/500	(AB)
M42	18-9	1300	18726	Thu	UAG: Russian embassy Havan wkg UAL: MFA Moscow. Message header: 11100 70103 76291 18126 04003	FSK 75/500	(AB-USA)
M42	18-9	1420	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	18-9	1424	16315	Thu	Russian diplo	Serdolik v2	(AB)
M42	18-9	1430	16313	Thu	Russian diplo. Test	Serdolik v2	(AB)
M42	18-9	1432	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	18-9	1433	16313	Thu	Russian diplo. Test	Serdolik v2	(AB)
M42	18-9	1436	16112	Thu	Russian diplo	Serdolik v2	(Moon)
M42	18-9	1449	16313	Thu	Russian diplo	Serdolik v2	(AB)
M42	19-9	1004	18324	Fri	Russian diplo. Selcal	Serdolik v2	(AB)
M42	19-9	1007	18322	Fri	Russian diplo	Serdolik v2	(AB)
M42	23-9	1013	20815	Tue	Russian diplo	Serdolik v2	(RO)
M42	23-9	1038	20815	Tue	Russian diplo	Serdolik v2	(RO)

M42	24-9	0754	11166	Wed	Russian diplo	MFSK-66	(AB/RO)
M42	24-9	0756	10239	Wed	Russian diplo	MFSK-66	(AB/RO)
M42	24-9	0805	11152	Wed	Russian diplo. Selcal	Serdolik v2	(AB/RO)
M42	25-9	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. Message header: 11100 70103 13957 25131 04009	FSK 75/500	(AB)
M42	25-9	1300	18726	Thu	UAG: Russian embassy Havana wkg UAL: MFA Moscow. Message header: 11100 70103 48536 25131 04003	FSK 75/500	(AB-USA)
M42b	1-9	0556	17475	Mon	RTK2: Russian PtP Link Control Station id 121742. Reversals	FSK 50/500	(TJ)
M42b	1-9	0559	11470	Mon	RGY2: Russian PtP link id 380741. Start of mon-fri schedule with Control Station RTK2 on 17475 kHz	FSK 50/500	(TJ)
M42b	1-9	0621	17475	Mon	RTK2: Russian PtP Link Control Station id 121742. Sends qtc to RGY2. Many errors	FSK CW	(TJ)
M42b	1-9	0810	19101	Mon	SX3H: Russian diplo/intel. Header: 363 100 1 0800 3189=	FSK 50/500 + FSK CW	(TJ)
M42b	3-9	0633	14780	Wed	RWI2: Russian PtP link id 121743 ongoing traffic with RHK6	FSK CW	(TJ)
M42b	3-9	0649	13870	Wed	RVQ4: Russian PtP link id 121745. Callup to link partner RWB3 id 350741 on 11065 kHz: 121745 rwb3 de rvq4 qrk 0 zor gd k 121745	FSK 50/500	(TJ)
M42b	3-9	0655	13985	Wed	RRQ6: Russian PtP link id 136741. Callup to 121744: rnm6 de rrq6 gd qrk0 qrk?	FSK 50/500	(TJ)
M42b	3-9	0701	16180	Wed	RNM6: Russian PtP link id 121744. Reply to call from link partner RRQ6 on 13985 kHz: "qrk0 zor gd" (receives "ok zor k" from RRQ6)	FSK 50/500	(TJ)
M42b	3-9	0800	19101	Wed	OJ8K: Russian diplo/intel callup and opchat; 5NT8 de OJ8K QTC1 ZCC ZVP k	FSK 50/500	(TJ)
M42b	5-9	0805	19101	Fri	PR5N: Russian diplo/intel. Opchat + message. Header: 367 100 5 0750 3851=	FSK 50/500	(TJ)
M42b	9-9	0756	5350	Tue	RAU2: Russian PtP link 190741 linked with RNI2	FSK 50/500	(TJ)
M42b	11-9	0605	15940	Thu	RPD2: Russian PtP link 390741. OOK numeric callup to 121741 into F1B 50/500 3rd shift; 390741 and "good morning" msg to REA9, and into usual revs.	FSK 50/500	(TJ)
M42b	11-9	0627	6791	Thu	Russian diplo/intel RBZDQHKCAAJ ... RBZDQJKCAUJ ... etc repeated. QSX on 8047 kHz	FSK 50/500	(TJ)
M42b	11-9	0802	13922	Thu	Russian diplo/intel. Opchat and callup. No joy. Message 373 100 11 0800 8712 = at 0820z. QSX 14456 kHz	FSK 50/500	(TJ)
M42b	12-9	0719	5800	Fri	RYF2: Russian PtP link 219741. OOK numeric call up to 121747 (RWI on 8115 kHz)	FSK 50/500	(TJ)
M42b	12-9	0727	8115	Fri	RWI: Russian PtP link 121747. Revs after link setup with RYF2 on 5800 kHz	FSK 50/500	(TJ)
M42b	12-9	0758	13922	Fri	Russian diplo/intel. Setting up daily link with 4XN6, opchat. Nil activity on either 14456 or 19101 kHz	CW	(TJ)
M42b	12-9	0844	11065	Fri	RWB: Russian PtP link 350741. Closing of daily schd with RVQ4 on 13870 kHz: 350741 rvq4 de rwb3 qrk 0 qrk ? ... rvq4 de rwb3 ok gb 73 sk	FSK 50/500 3rd shift	(TJ)
M42b	12-9	0844	13870	Fri	RVQ4: Russian PtP link 121745. Closing of daily sched with RWB on 11065 kHz: 121745 rwb de rvq4 qrk? ... rwb de rvq4 qrk 0 znn gb sk	FSK 50/500 3rd shift	(TJ)
M42b	12-9	0859	11080	Fri	RDI: Russian PtP link 340741. Revs and closure of link with RTK on 14485 kHz: rtk de rdi qrk? ... rtk de rdi ok znn gb 73 sk	FSK 50/500 3rd shift	(TJ)
M42b	12-9	0859	14485	Fri	RTK: Russian PtP link 121746. Revs and later closure of link with RDI 340741 on 11080 kHz	FSK 50/500 3rd shift	(TJ)
M42b	13-9	0804	13922	Sat	PVS9: Russian diplo/intel. Very weak call up to DVY7 and opchat	CW	(TJ)
M42b	13-9	0804	19101	Sat	DVY7: Russian diplo/intel. Opchat pvs9 de dvy7 qsa2 qtc1. Message header 375 100 13 0800 1945 =	CW + FSK 50/500	(TJ)
M42b	14-9	0802	13922	Sun	Russian diplo/intel. Very weak callup/opchat. Nil heard on 19101 kHz	CW	(TJ)

M42b	16-9	0826	14417	Tue	BZLQPCAUJ RYPJCKZS GMOK OGVO HOOOOO OGVO HOOOOO OGVO HOOOOOOOOOOOOOOOOOOO (repeated)	FSK 50/500	(AB)
M42b	16-9	0830	16235	Tue	BZLQPCAUJ RYPJCKZS GMOK OGVO HOOOOO OGVO HOOOOO OGVO HOOOOOOOOOOOOOOOOOOO (repeated)	FSK 50/500	(AB)
M42b	16-9	1110	9457	Tue	BZLQPCAUJ RYPJCKZS GMOK OGVO HOOOOO OGVO HOOOOO OGVO HOOOOOOOOOOOOOOOOOOO (repeated)	FSK 50/500	(AB)
M42b	19-9	0705	8195	Fri	RNM2: Russian PtP link 320741 testing with REA, link id 121748 on 9185 kHz	FSK 50/500	(TJ)
M42b	19-9	0710	9185	Fri	REA: Russian PtP link 121748	FSK 50/500	(TJ)
M42b	19-9	0756	13922	Fri	VVV and callup, F8PW/PG67 link. QSX 14456 kHz	CW	(TJ)
M42b	19-9	0759	13922	Fri	Callup and opchat, IC8U/K9VE link. QSX 14456 kHz	CW	(TJ)
M42b	19-9	0807	14456	Fri	VVV and callup, opchat, PG67/F8PW link. QSX 13922 kHz	CW	(TJ)
M42b	19-9	0807	14456	Fri	Callup and opchat, K9VE /IC8U link	FSK CW _ FSK 50/500	(TJ)
M42b	21-9	0750	13922	Sun	YH4Z: Russian diplo/intel. Opchat from 0750z, calling sequence for link partner 1EZP, no connection made, YH4Z then orders; nw == qsy 9t293 qsy 9t393 k at 0808z. This goes on until 0820z. YH4Z switche	CW	(TJ)
M42b	21-9	0930	19101	Sun	YH4Z: Russian diplo/intel. Opchat and message. Header 382 100 21 0800 9432 = after several attempts of link establishment on 13922 kHz. Opchat cfm nil gru? ... rpt ... k, then receives message #321 fr	CW + FSK 50/500	(TJ)
M42b	22-9	0759	13922	Mon	A3PJ: Russian diplo/intel. Callup: 2b8y 2b8y 2b8y de a3pj a3pj k. 2B8Y replies on 14456 kHz. Then: ok qsw 32621. 2B8Y then sends a message in FSK 50/500 on 14456 kHz.	CW	(TJ)
M42b	23-9	0725	5800	Tue	RYF2: Russian PtP link 219741 clg RWI on 8115 kHz, RWI replies with a test tape	FSK CW	(TJ)
M42b	23-9	0755	13922	Tue	SX6H: Russian diplo/intel. vvv vvv vvv awx2 de sx6h at 0759z. AWX2 has serious problems with reception on 14456 kHz. SX6H then sent; ok qsw 79_2t k	CW	(TJ)
M42b	24-9	0750	13922	Wed	MB8M: Russian diplo/intel. Reply to S5W8: s5w8 de mb8m qsa3 qsa?. S5W8 wkg on 14456 kHz has problems with readability and MB8M replied: ok qsw 84619 k	CW	(TJ)
M42b	25-9	0750	13922	Thu	OA9K: Russian diplo/intel. vvv vvv vvv, callup to 5NT8, then: qsw 61498 k. 5NT7 sent a message on 14456 kHz	CW	(TJ)
M42b	26-9	0751	13922	Fri	WSJ8: Russian diplo/intel wkg K9M1 on 14456 kHz	CW	(TJ)
M42b	26-9	0903	17426	Fri	BZLQPCAUJ RTHZLQPCAUJ RCGWYTHBJ RKFOOOOOOOOOOOOOOOOOOOOOOOO... (repeated)	FSK 50/500	(AB)
M42b	28-9	0751	13922	Sun	3LSG: Russian diplo/intel wkg V46B on 14456 kHz	CW	(TJ)
M42b	30-9	0757	13922	Tue	6P7D: Russian intel/diplo. VVV K3AG K3AG K3AG de 6P7D 6P7D k. ok zzc zvp k. bk bk qrv. bk bk qrv k. ok qsw 78746 k	CW	(TJ)
M89	1-9	1533	5742	Mon	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	2-9	1020	6840	Tue	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	2-9	1020	8920	Tue	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	2-9	1030	8375	Tue	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	2-9	1030	12124	Tue	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	2-9	1120	4860	Tue	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	2-9	1120	6840	Tue	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	2-9	1130	7620	Tue	VVV WNF (x3) DE FXM (X2) (R5)	CW	(JPL)
M89	2-9	1130	8350	Tue	VVV WNF (x3) DE FXM (X2) (R5)	CW	(JPL)

M89	2-9	1520	4860	Tue	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	2-9	1520	6840	Tue	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	4-9	1330	5742	Thu	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	4-9	1620	4860	Thu	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	4-9	1620	6840	Thu	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	4-9	1630	4720	Thu	VVV WNF (x3) DE FXM (X2) (R5)	CW	(JPL)
M89	4-9	1630	5150	Thu	VVV WNF (x3) DE FXM (X2) (R5)	CW	(JPL)
M89	4-9	2220	4860	Thu	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	4-9	2220	6840	Thu	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	4-9	2230	4720	Thu	VVV WNF (x3) DE FXM (X2) (R5)	CW	(JPL)
M89	4-9	2230	5150	Thu	VVV WNF (x3) DE FXM (X2) (R5)	CW	(JPL)
M89	5-9	1120	4860	Fri	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	5-9	1120	6840	Fri	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	5-9	1130	7620	Fri	VVV WNF (x3) DE FXM (X2) (R5)	CW	(JPL)
M89	5-9	1130	8350	Fri	VVV WNF (x3) DE FXM (X2) (R5)	CW	(JPL)
M89	23-9	1203	9042	Tue	i.p. NR 46 CK 238 35 0923 1... = // 4156 kHz	CW	(JPL)
M89	23-9	1209	4357	Tue	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	23-9	1209	5742	Tue	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	23-9	1645	4357	Tue	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	23-9	1645	5742	Tue	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	23-9	1656	4357	Tue	V 3JWV (x3) DE QSVP (x2) 674/4558/4888/82/01/F8403/407/B AR	CW	(JPL)
M89	23-9	1703	5742	Tue	V QJPL (x3) DE 5CRP (x2)	CW	(JPL)
M89	23-9	1711	6189	Tue	V OPU6 (x3) DE WTMJ (x2)	CW	(JPL)
M89	23-9	1713	6352	Tue	i.p. FFF NR 2343/EX 0103 RMKS 1361 TO 1368 = F4D5/BBM7 AR	CW	(JPL)
M89	26-9	1719	6189	Fri	V OPU6 (x3) DE WTMJ (x2)	CW	(JPL)
M89	26-9	1722	4357	Fri	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	26-9	1722	5742	Fri	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	26-9	1739	5314	Fri	V QJPL (x3) DE 5CRP (x2)	CW	(JPL)
M89	27-9	1640	4357	Sat	i.p. NR ..90 CK 121 70 0928 0000 RMKS 6133 TO 6333 =	CW	(JPL)
M89	27-9	1811	5520.5	Sat	ABCDEFGHJKLMNOPQRSTUVWXYZ T1234567DN II AS VA M = (Repeated)	CW	(JPL)
M89	28-9	1101	5520.5	Sun	i.p. ABCDEFGHJKLMNOPQRSTUVWXYZ T1234567DN II AS VA M = (Repeated)	CW	(JPL)
M89	28-9	1105	4610	Sun	V QJPL (x3) DE 5CRP (x2)	CW	(JPL)
M89	28-9	1108	4357	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	28-9	1108	5742	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	28-9	1108	8375	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	28-9	1108	12124	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	28-9	1120	4860	Sun	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	28-9	1120	6840	Sun	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	28-9	1130	7620	Sun	VVV WNF (x3) DE FXM (X2) (R5)	CW	(JPL)
M89	28-9	1130	8350	Sun	VVV WNF (x3) DE FXM (X2) (R5)	CW	(JPL)
M89	28-9	1156	9042	Sun	i.p. NR 56 CK 113 35 0928 1532 = // 4156)	CW	(JPL)
M89	28-9	1308	4131	Sun	i.p.	CW	(JPL)

M89	28-9	1520	4860	Sun	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	28-9	1520	6840	Sun	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	28-9	1526	4610	Sun	V QJPL (x3) DE 5CRP (x2)	CW	(JPL)
M89	28-9	1528	4357	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	28-9	1528	5742	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	28-9	1530	4720	Sun	VVV WNF (x3) DE FXM (X2) (R5)	CW	(JPL)
M89	28-9	1530	5150	Sun	VVV WNF (x3) DE FXM (X2) (R5)	CW	(JPL)
M89	28-9	1548	5566	Sun	i.p.	CW	(JPL)
M89	28-9	1620	4860	Sun	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	28-9	1620	6840	Sun	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	28-9	1628	6556	Sun	i.p.	CW	(JPL)
M89	28-9	1630	4720	Sun	VVV WNF (x3) DE FXM (X2) (R5)	CW	(JPL)
M89	28-9	1630	5150	Sun	VVV WNF (x3) DE FXM (X2) (R5)	CW	(JPL)
M89	28-9	1635	5672	Sun	Y3JI DE N6WX M89 (Repeated)	CW	(JPL)
M89	28-9	1652	5520.5	Sun	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ T1234567DN II AS VA M = (Repeated)	CW	(JPL)
M89	28-9	1706	4610	Sun	V QJPL (x3) DE 5CRP (x2) Note: Using R/S QEPL DE ACRP	CW	(JPL)
M89	28-9	1715	4357	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	28-9	1715	5742	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	28-9	1720	4455	Sun	i.p.	CW	(JPL)
M95	1-9	1530	3903	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	1-9	1530	6886	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	2-9	1026	11475	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	2-9	1157	9042	Tue	i.p. NR 04 CK 132 35 0902 1536 =	CW	(JPL)
M95	2-9	1518	3903	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	4-9	1618	3903	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	4-9	1618	6886	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	4-9	2205	3903	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	4-9	2205	6886	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	5-9	1142	4542	Fri	V BNGC DE XS30 - NR 0808 CK 031 35 0905 1613 = NR 0809 CK 374 35 0905 1629 = //6876 kHz	CW	(JPL)
M95	5-9	1142	6876	Fri	V BNGC DE XS30 - NR 0808 CK 031 35 0905 1613 = NR 0809 CK 374 35 0905 1629 = //4542 kHz	CW	(JPL)
M95	5-9	1149	4156	Fri	NR 10 CK 205 35 0905 1518 = //9042 kHz	CW	(JPL)
M95	5-9	1149	9042	Fri	NR 10 CK 205 35 0905 1518 = //4156 kHz	CW	(JPL)
M95	23-9	1142	6876	Tue	V BNGC DE XS30 - NR 0883 CK 081 35 0923 16.. = NR 0884 CK 675 35 0923 1628 =	CW	(JPL)
M95	23-9	1642	3903	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	27-9	1635	3903	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	28-9	1144	4542	Sun	V BNGC DE XS30 - NR 0915 CK 056 35 0928 1540 = NR 0916 CK 392 35 0928 1552 = //6876 kHz	CW	(JPL)
M95	28-9	1144	6876	Sun	V BNGC DE XS30 - NR 0915 CK 056 35 0928 1540 = NR 0916 CK 392 35 0928 1552 = //4542 kHz	CW	(JPL)
M95	28-9	1202	3903	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)

M95	28-9	1202	6886	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	28-9	1553	5373	Sun	i.p. NR /CCC CK... 233 RMKS CQ 1344 TO 1364 1312 9824 =	CW	(JPL)
M95	28-9	1559	4456	Sun	i.p. NR 0001/CCK CK 91 76 0928 1410 RMKS 70 =	CW	(JPL)
M95	28-9	1616	6886	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
P03	3-9	1310	9063	Wed	Polish intel.	PSK	(AB)
P03	3-9	1315	9063	Wed	Polish intel.	PSK	(AB)
P03	4-9	1950	7670	Thu	Polish intel.	PSK	(AB)
P03	4-9	1955	7670	Thu	Polish intel.	PSK	(AB)
P03	5-9	0530	9431	Fri	Polish intel.	PSK	(AB)
P03	5-9	0535	9431	Fri	Polish intel.	PSK	(AB)
P03	5-9	1100	8186	Fri	Polish intel.	PSK	(AB)
P03	5-9	1105	8186	Fri	Polish intel.	PSK	(AB)
P03	6-9	1020	6849	Sat	Polish intel.	PSK	(AB)
P03	6-9	1025	6849	Sat	Polish intel.	PSK	(AB)
P03	6-9	1245	6807	Sat	Polish intel.	PSK	(AB)
P03	6-9	1250	6807	Sat	Polish intel.	PSK	(AB)
P03	6-9	1310	9063	Sat	Polish intel.	PSK	(AB)
P03	6-9	1315	9063	Sat	Polish intel.	PSK	(AB)
P03	7-9	0530	9431	Sun	Polish intel.	PSK	(AB)
P03	7-9	0535	9431	Sun	Polish intel.	PSK	(AB)
P03	7-9	1020	6849	Sun	Polish intel.	PSK	(AB)
P03	7-9	1025	6849	Sun	Polish intel.	PSK	(AB)
P03	7-9	1100	8186	Sun	Polish intel.	PSK	(AB)
P03	7-9	1105	8186	Sun	Polish intel.	PSK	(AB)
P03	7-9	1220	20167	Sun	Polish intel.	PSK	(AB)
P03	7-9	1225	20167	Sun	Polish intel.	PSK	(AB)
P03	7-9	1245	6807	Sun	Polish intel.	PSK	(AB)
P03	7-9	1250	6807	Sun	Polish intel.	PSK	(AB)
P03	7-9	1515	18636	Sun	Polish intel.	PSK	(AB)
P03	7-9	1520	18636	Sun	Polish intel.	PSK	(AB)
P03	7-9	1725	14415	Sun	Polish intel.	PSK	(AB)
P03	7-9	1730	14415	Sun	Polish intel.	PSK	(AB)
P03	7-9	1950	7670	Sun	Polish intel.	PSK	(AB)
P03	7-9	1955	7670	Sun	Polish intel.	PSK	(AB)
P03	10-9	1310	9063	Wed	Polish intel.	PSK	(AB)
P03	10-9	1315	9063	Wed	Polish intel.	PSK	(AB)
P03	11-9	1950	7670	Thu	Polish intel.	PSK	(AB)
P03	11-9	1955	7670	Thu	Polish intel.	PSK	(AB)
P03	12-9	0530	9431	Fri	Polish intel.	PSK	(AB)
P03	12-9	0535	9431	Fri	Polish intel.	PSK	(AB)
P03	12-9	1100	8186	Fri	Polish intel.	PSK	(AB)
P03	12-9	1105	8186	Fri	Polish intel.	PSK	(AB)

P03	12-9	1515	18636	Fri	Polish intel.	PSK	(AB)
P03	12-9	1520	18636	Fri	Polish intel.	PSK	(AB)
P03	13-9	1020	6849	Sat	Polish intel.	PSK	(AB)
P03	13-9	1025	6849	Sat	Polish intel.	PSK	(AB)
P03	13-9	1245	6807	Sat	Polish intel.	PSK	(AB)
P03	13-9	1250	6807	Sat	Polish intel.	PSK	(AB)
P03	13-9	1310	9063	Sat	Polish intel.	PSK	(AB)
P03	13-9	1315	9063	Sat	Polish intel.	PSK	(AB)
P03	14-9	0530	9431	Sun	Polish intel.	PSK	(AB)
P03	14-9	0535	9431	Sun	Polish intel.	PSK	(AB)
P03	14-9	1020	6849	Sun	Polish intel.	PSK	(AB)
P03	14-9	1025	6849	Sun	Polish intel.	PSK	(AB)
P03	14-9	1100	8186	Sun	Polish intel.	PSK	(AB)
P03	14-9	1105	8186	Sun	Polish intel.	PSK	(AB)
P03	14-9	1220	20167	Sun	Polish intel.	PSK	(AB)
P03	14-9	1225	20167	Sun	Polish intel.	PSK	(AB)
P03	14-9	1245	6807	Sun	Polish intel.	PSK	(AB)
P03	14-9	1250	6807	Sun	Polish intel.	PSK	(AB)
P03	14-9	1515	18636	Sun	Polish intel.	PSK	(AB)
P03	14-9	1520	18636	Sun	Polish intel.	PSK	(AB)
P03	14-9	1725	14415	Sun	Polish intel.	PSK	(AB)
P03	14-9	1730	14415	Sun	Polish intel.	PSK	(AB)
P03	14-9	1950	7670	Sun	Polish intel.	PSK	(AB)
P03	14-9	1955	7670	Sun	Polish intel.	PSK	(AB)
P03	16-9	1725	14415	Tue	Polish intel.	PSK	(AB)
P03	16-9	1730	14415	Tue	Polish intel.	PSK	(AB)
P03	17-9	1310	9063	Wed	Polish intel.	PSK	(AB)
P03	17-9	1315	9063	Wed	Polish intel.	PSK	(AB)
P03	18-9	1950	7670	Thu	Polish intel.	PSK	(AB)
P03	18-9	1955	7670	Thu	Polish intel.	PSK	(AB)
P03	19-9	0530	9431	Fri	Polish intel.	PSK	(AB)
P03	19-9	0535	9431	Fri	Polish intel.	PSK	(AB)
P03	19-9	1100	8186	Fri	Polish intel.	PSK	(AB)
P03	19-9	1105	8186	Fri	Polish intel.	PSK	(AB)
P03	19-9	1515	18636	Fri	Polish intel.	PSK	(AB)
P03	19-9	1520	18636	Fri	Polish intel.	PSK	(AB)
P03	20-9	1245	6807	Sat	Polish intel.	PSK	(AB)
P03	20-9	1250	6807	Sat	Polish intel.	PSK	(AB)
P03	20-9	1310	9063	Sat	Polish intel.	PSK	(AB)
P03	20-9	1315	9063	Sat	Polish intel.	PSK	(AB)
P03	21-9	0530	9431	Sun	No transmission	PSK	(AB)
P03	21-9	0535	9431	Sun	No transmission	PSK	(AB)

P03	21-9	1020	6849	Sun	No transmission	PSK	(AB)
P03	21-9	1025	6849	Sun	No transmission	PSK	(AB)
P03	21-9	1100	8186	Sun	No transmission	PSK	(AB)
P03	21-9	1105	8186	Sun	No transmission	PSK	(AB)
P03	21-9	1220	20167	Sun	No transmission	PSK	(AB)
P03	21-9	1225	20167	Sun	No transmission	PSK	(AB)
P03	21-9	1245	6807	Sun	No transmission	PSK	(AB)
P03	21-9	1250	6807	Sun	No transmission	PSK	(AB)
P03	21-9	1515	18636	Sun	No transmission	PSK	(AB)
P03	21-9	1520	18636	Sun	No transmission	PSK	(AB)
P03	21-9	1725	14415	Sun	No transmission	PSK	(AB)
P03	21-9	1730	14415	Sun	No transmission	PSK	(AB)
P03	21-9	1950	7670	Sun	No transmission	PSK	(AB)
P03	21-9	1955	7670	Sun	No transmission	PSK	(AB)
P03	22-9	1220	20167	Mon	Polish intel.	PSK	(AB)
P03	22-9	1225	20167	Mon	Polish intel.	PSK	(AB)
P03	23-9	1725	14415	Tue	Polish intel.	PSK	(AB)
P03	23-9	1730	14415	Tue	Polish intel.	PSK	(AB)
P03	24-9	1310	9063	Wed	Polish intel.	PSK	(AB)
P03	24-9	1315	9063	Wed	Polish intel.	PSK	(AB)
P03	25-9	1950	7670	Thu	Polish intel.	PSK	(AB)
P03	25-9	1955	7670	Thu	Polish intel.	PSK	(AB)
P03	26-9	0530	9431	Fri	Polish intel.	PSK	(AB)
P03	26-9	0535	9431	Fri	Polish intel.	PSK	(AB)
P03	26-9	1100	8186	Fri	Polish intel.	PSK	(AB)
P03	26-9	1105	8186	Fri	Polish intel.	PSK	(AB)
P03	26-9	1515	18636	Fri	Polish intel.	PSK	(AB)
P03	26-9	1520	18636	Fri	Polish intel.	PSK	(AB)
P03	27-9	1020	6849	Sat	Polish intel.	PSK	(AB)
P03	27-9	1025	6849	Sat	Polish intel.	PSK	(AB)
P03	27-9	1245	6807	Sat	Polish intel.	PSK	(AB)
P03	27-9	1250	6807	Sat	Polish intel.	PSK	(AB)
P03	27-9	1310	9063	Sat	Polish intel.	PSK	(AB)
P03	27-9	1315	9063	Sat	Polish intel.	PSK	(AB)
P03	28-9	0530	9431	Sun	Polish intel.	PSK	(AB)
P03	28-9	0535	9431	Sun	Polish intel.	PSK	(AB)
P03	28-9	1020	6849	Sun	Polish intel.	PSK	(AB)
P03	28-9	1025	6849	Sun	Polish intel.	PSK	(AB)
P03	28-9	1100	8186	Sun	Polish intel.	PSK	(AB)
P03	28-9	1105	8186	Sun	Polish intel.	PSK	(AB)
P03	28-9	1220	20167	Sun	Polish intel.	PSK	(AB)
P03	28-9	1225	20167	Sun	Polish intel.	PSK	(AB)

P03	28-9	1245	6807	Sun	Polish intel.	PSK	(AB)
P03	28-9	1250	6807	Sun	Polish intel.	PSK	(AB)
P03	28-9	1515	18636	Sun	Polish intel.	PSK	(AB)
P03	28-9	1520	18636	Sun	Polish intel.	PSK	(AB)
P03	28-9	1725	14415	Sun	Polish intel.	PSK	(AB)
P03	28-9	1730	14415	Sun	Polish intel.	PSK	(AB)
P03	28-9	1950	7670	Sun	Polish intel.	PSK	(AB)
P03	28-9	1955	7670	Sun	Polish intel.	PSK	(AB)
P03	29-9	1220	20167	Mon	Polish intel.	PSK	(AB)
P03	29-9	1225	20167	Mon	Polish intel.	PSK	(AB)
P03	30-9	1725	14415	Tue	Polish intel.	PSK	(AB)
P03	30-9	1730	14415	Tue	Polish intel.	PSK	(AB)
P03g	1-9	1030	9902	Mon	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	1-9	1035	9902	Mon	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	2-9	1800	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	2-9	1805	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	3-9	1030	9902	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	3-9	1035	9902	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	3-9	1100	8274	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	3-9	1105	8274	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	4-9	1800	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	4-9	1805	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	8-9	1030	9902	Mon	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	8-9	1035	9902	Mon	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	9-9	1100	8274	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	9-9	1105	8274	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	9-9	1800	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	9-9	1805	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	10-9	1030	9902	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	10-9	1035	9902	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	10-9	1100	8274	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	10-9	1105	8274	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	11-9	0635	19515	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	11-9	0640	19515	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	11-9	1800	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	11-9	1805	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	15-9	1030	9902	Mon	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	15-9	1035	9902	Mon	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	16-9	1100	8274	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	16-9	1105	8274	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	16-9	1800	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	16-9	1805	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)

P03g	17-9	1030	9902	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	17-9	1035	9902	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	17-9	1100	8274	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	17-9	1105	8274	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	18-9	0635	19515	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	18-9	0640	19515	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	18-9	1800	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	18-9	1805	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	22-9	1030	9902	Mon	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	22-9	1035	9902	Mon	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	23-9	1100	8274	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	23-9	1105	8274	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	23-9	1800	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	23-9	1805	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	24-9	1030	9902	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	24-9	1035	9902	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	24-9	1100	8274	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	24-9	1105	8274	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	25-9	0635	19515	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	25-9	0640	19515	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	25-9	1800	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	25-9	1805	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	29-9	1030	9902	Mon	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	29-9	1035	9902	Mon	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	30-9	0635	19515	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	30-9	0640	19515	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	30-9	1100	8274	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	30-9	1105	8274	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	30-9	1800	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	30-9	1805	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03k	3-9	1730	10429	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	3-9	1735	10429	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	6-9	0630	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	6-9	0635	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	6-9	1730	10429	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	6-9	1735	10429	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	7-9	0630	7504	Sun	Polish intel.	BPSK 100Bd/480bp	(AB/TJ)
P03k	7-9	0635	7504	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	10-9	1730	10429	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	10-9	1735	10429	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	13-9	0630	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	13-9	0635	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)

P03k	13-9	1730	10429	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	13-9	1735	10429	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	14-9	0630	7504	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	14-9	0635	7504	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	17-9	1730	10429	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	17-9	1735	10429	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-9	0630	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-9	0635	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-9	1730	10429	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-9	1735	10429	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	21-9	0630	7504	Sun	No transmission	BPSK 100Bd/480bp	(AB)
P03k	21-9	0635	7504	Sun	No transmission	BPSK 100Bd/480bp	(AB)
P03k	24-9	1730	10429	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	24-9	1735	10429	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-9	0630	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-9	0635	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-9	1730	10429	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-9	1735	10429	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	28-9	0630	7504	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	28-9	0635	7504	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03l	1-9	1200	9079	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	1-9	1205	9079	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	3-9	1345	10641	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	3-9	1350	10641	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	4-9	1200	9079	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	4-9	1205	9079	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	5-9	1345	10641	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	5-9	1350	10641	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	5-9	1500	9902	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	5-9	1505	9902	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	8-9	1200	9079	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	8-9	1205	9079	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	9-9	1500	9902	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	9-9	1505	9902	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	10-9	1345	10641	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	10-9	1350	10641	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	11-9	0430	10210	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	11-9	0435	10210	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	11-9	1200	9079	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	11-9	1205	9079	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	12-9	1345	10641	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	12-9	1350	10641	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)

P03I	12-9	1500	9902	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	12-9	1505	9902	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	15-9	1200	9079	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	15-9	1205	9079	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	16-9	1500	9902	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	16-9	1505	9902	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	17-9	1345	10641	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	17-9	1350	10641	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	18-9	1200	9079	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	18-9	1205	9079	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	19-9	1345	10641	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	19-9	1350	10641	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	19-9	1500	9902	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	19-9	1505	9902	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	22-9	1200	9079	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	22-9	1205	9079	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	23-9	0430	10210	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	23-9	0435	10210	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	23-9	1500	9902	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	23-9	1505	9902	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	24-9	1345	10641	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	24-9	1350	10641	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	25-9	0430	10210	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	25-9	0435	10210	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	25-9	1200	9079	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	25-9	1205	9079	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	26-9	1345	10641	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	26-9	1350	10641	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	26-9	1500	9902	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	26-9	1505	9902	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	29-9	1200	9079	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	29-9	1205	9079	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	30-9	0430	10210	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	30-9	0435	10210	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	30-9	1500	9902	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	30-9	1505	9902	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P07	3-9	1400	9311	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	3-9	1410	9071	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	3-9	1420	8189	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	3-9	1430	7894	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	3-9	1440	7488	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	3-9	1450	6783	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)

[illegible]

Q26	5-9	1132	4542	Fri	Message //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	5-9	1132	6876	Fri	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	22-9	1418	17132	Mon	8865 8865 8865 DE ZK69 ZK69 ZK69 XYXYXYXYXY CY GD QSL 2220 BOZ NIL SK XRPEC	4+4 QPSK 75/1000 LSB	(AB)
Q26	24-9	0956	18541	Wed	Message (too weak to decode)	4+4 QPSK 75/1000 LSB	(AB)
Q26	24-9	1033	18651	Wed	Message (too weak to decode)	4+4 QPSK 75/1000 LSB	(AB)
Q26	28-9	1132	4542	Sun	Message //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	28-9	1132	6876	Sun	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
S06	1-9	0400	11616	Mon	480-579/60=05004 via KiwiSDR J	USB	(HFD-J)
S06	1-9	0400	11616	Mon	480 579 60 05004 72339 35627 ... 28577 00102 31270 579 60 00000	USB	(Subilo)
S06	1-9	0420	9322	Mon	480 via KiwiSDR J	USB	(HFD-J)
S06	1-9	0420	9322	Mon	480 579 60 05004 72339 35627 ... 28577 00102 31270 579 60 00000	USB	(Subilo)
S06	2-9	0400	11616	Tue	480 579 60 05004 72339 35627 ... 28577 00102 31270 579 60 00000	USB	(Subilo)
S06	2-9	0420	9322	Tue	480 579 60 05004 72339 35627 ... 28577 00102 31270 579 60 00000	USB	(Subilo)
S06	2-9	0900	10755	Tue	975 (R4m) 341 60 27454 76598 74151 ... 26107 58227 31383 341 60 00000	USB	(PY)
S06	3-9	0400	11616	Wed	480 631 25	USB	(Lac)
S06	3-9	0400	11616	Wed	480 631 25 67294 37543 10527 ... 06829 50341 73834 631 25 480 257 30 79581 53893 84376 ... 13313 83189 70856 257 30 00000	USB	(Subilo)
S06	3-9	0420	9322	Wed	480 631 25	USB	(Lac)
S06	3-9	0420	9322	Wed	480 631 25 67294 37543 10527 ... 06829 50341 73834 631 25 480 257 30 79581 53893 84376 ... 13313 83189 70856 257 30 00000	USB	(Subilo)
S06	4-9	0400	11616	Thu	480 631 25 67294 37543 10527 ... 06829 50341 73834 631 25 480 257 30 79581 53893 84376 ... 13313 83189 70856 257 30 00000	USB	(Subilo)
S06	4-9	0420	9322	Thu	480 631 25 67294 37543 10527 ... 06829 50341 73834 631 25 480 257 30 79581 53893 84376 ... 13313 83189 70856 257 30 00000	USB	(Subilo)
S06	5-9	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	5-9	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S06	5-9	1500	11073	Fri	352 819 60 78014 74391 51030 ... 48507 11980 56407 819 60 00000	USB	(PY)
S06	5-9	1900	9925	Fri	842 842 842 00000	USB	(AB/HFD)
S06	5-9	2000	7505	Fri	842 842 842 00000	USB	(AB/HFD)
S06	8-9	0400	11616	Mon	480 480 480 00000 480 963 57 59509 27955 47001 ... 16687 30516 28760 963 57 00000	USB	(Subilo/Lac)
S06	8-9	0420	9322	Mon	480 963 57 59509 27955 47001 ... 16687 30516 28760 963 57 00000	USB	(Subilo)
S06	9-9	0400	11616	Tue	480 963 57 59509 27955 47001 ... 16687 30516 28760 963 57 00000	USB	(Subilo)
S06	9-9	0420	9322	Tue	480 963 57 59509 27955 47001 ... 16687 30516 28760 963 57 00000	USB	(Subilo)
S06	10-9	0400	11616	Wed	480 127 25 41903 66572 52064 ... 68379 21465 96186 127 25 480 395 30 59979 62902 16477 ... 55492 83777 78896 395 30 00000	USB	(Subilo)
S06	10-9	0420	9322	Wed	480 127 25 41903 66572 52064 ... 68379 21465 96186 127 25 480 395 30 59979 62902 16477 ... 55492 83777 78896 395 30 00000	USB	(Subilo)
S06	11-9	0400	11616	Thu	480 127 25 41903 66572 52064 ... 68379 21465 96186 127 25 480 395 30 59979 62902 16477 ... 55492 83777 78896 395 30 00000	USB	(Subilo)
S06	11-9	0420	9322	Thu	480 127 25 41903 66572 52064 ... 68379 21465 96186 127 25 480 395 30 59979 62902 16477 ... 55492 83777 78896 395 30 00000	USB	(Subilo)

S06	12-9	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	12-9	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S06	15-9	0400	11616	Mon	480 162 53 46522 97011 83446 ... 73703 05813 50880 162 53 00000	USB	(Subilo)
S06	15-9	0420	9322	Mon	480 162 53 46522 97011 83446 ... 73703 05813 50880 162 53 00000	USB	(Subilo)
S06	16-9	0400	11616	Tue	480 162 53 46522 97011 83446 ... 73703 05813 50880 162 53 00000	USB	(Subilo)
S06	16-9	0420	9322	Tue	480 162 53 46522 97011 83446 ... 73703 05813 50880 162 53 00000	USB	(Subilo)
S06	17-9	0400	11616	Wed	480 269 31 77627 36824 25795 ... 67817 49085 31259 269 31 480 573 24 05631 57223 06258 ... 47732 56082 82362 573 24 00000	USB	(Subilo)
S06	17-9	0420	9322	Wed	480 269 31 77627 36824 25795 ... 67817 49085 31259 269 31 480 573 24 05631 57223 06258 ... 47732 56082 82362 573 24 00000	USB	(Subilo)
S06	18-9	0400	11616	Thu	480 269 31 77627 36824 25795 ... 67817 49085 31259 269 31 480 573 24 05631 57223 06258 ... 47732 56082 82362 573 24 00000	USB	(Subilo)
S06	18-9	0420	9322	Thu	480 269 31 77627 36824 25795 ... 67817 49085 31259 269 31 480 573 24 05631 57223 06258 ... 47732 56082 82362 573 24 00000	USB	(Subilo)
S06	19-9	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	19-9	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S06	19-9	1900	9925	Fri	842 842 842 00000	USB	(AB)
S06	19-9	2000	7510	Fri	842 842 842 00000	USB	(AB)
S06	22-9	0400	11616	Mon	480 713 50 36924 64224 87582 ... 08554 22405 03029 713 50 00000	USB	(Subilo)
S06	22-9	0420	9322	Mon	480 713 50 36924 64224 87582 ... 08554 22405 03029 713 50 00000	USB	(Subilo)
S06	23-9	0400	11616	Tue	480 713 50 36924 64224 87582 ... 08554 22405 03029 713 50 00000	USB	(Subilo)
S06	23-9	0420	9322	Tue	480 713 50 36924 64224 87582 ... 08554 22405 03029 713 50 00000	USB	(Subilo)
S06	24-9	0400	11616	Wed	480 617 23 42243 22630 69786 ... 74388 56180 58984 617 23 480 925 31 98625 22726 67447 ... 07911 98036 10021 925 31 00000	USB	(Subilo)
S06	24-9	0420	9322	Wed	480 617 23 42243 22630 69786 ... 74388 56180 58984 617 23 480 925 31 98625 22726 67447 ... 07911 98036 10021 925 31 00000	USB	(Subilo)
S06	25-9	0400	11616	Thu	480 617 23 42243 22630 69786 ... 74388 56180 58984 617 23 480 925 31 98625 22726 67447 ... 07911 98036 10021 925 31 00000	USB	(Subilo)
S06	25-9	0420	9322	Thu	480 617 23 42243 22630 69786 ... 74388 56180 58984 617 23 480 925 31 98625 22726 67447 ... 07911 98036 10021 925 31 00000	USB	(Subilo)
S06	26-9	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	26-9	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S06	29-9	0400	11616	Mon	480 532 60 94685 44117 57985 ... 94784 37433 30394 532 60 00000	USB	(Subilo)
S06	29-9	0420	9322	Mon	480 532 60 94685 44117 57985 ... 94784 37433 30394 532 60 00000	USB	(Subilo)
S06	30-9	0400	11616	Tue	480 532 60 94685 44117 57985 ... 94784 37433 30394 532 60 00000	USB	(Subilo)
S06	30-9	0420	9322	Tue	480 532 60 94685 44117 57985 ... 94784 37433 30394 532 60 00000	USB	(Subilo)
S06g	19-8	0905	10755	Tue	1000Hz test tone [USB -> LSB in the middle of the tone] then USB S06 "975" once	USB/LSB	(PY)
S06g	19-8	0920	10755	Tue	975 12345 (R2m30s) 681 52 96444 51878 43650 ... 63856 27549 38018 681 52 00000 fast pace	USB/LSB	(PY)
S06g	22-8	1120	10755	Fri	975 61254 408 52 94018 49438 88309 ... 16417 12002 55770 408 52 00000	USB/LSB	(PY)
S11a	1-9	0510	23004	Mon	652/00 Konets	USB	(AB/Lac/HFD)
S11a	1-9	0700	8597	Mon	472/00 Konets	USB	(AB/Lac/HFD)

S11a	1-9	0915	6480	Mon	484/00 Konets	USB	(AB/HFD)
S11a	2-9	0445	10728	Tue	798/00 Konets	USB	(Lac/HFD)
S11a	2-9	1400	11420	Tue	425/00 Konets	USB	(AB/Lac/HFD)
S11a	3-9	0510	23004	Wed	655/00 Konets	USB	(AB/Lac)
S11a	3-9	0725	23353	Wed	385/00 Konets	USB	(Lac/HFD)
S11A	3-9	1850	10213	Wed	282/00 Konets	USB	(HFD)
S11a	4-9	0445	10728	Thu	796/00 Konets	USB	(AB/Lac)
S11a	4-9	0700	8597	Thu	472/00 Konets	USB	(AB/Lac)
S11a	5-9	0725	23353	Fri	385/00 Konets	USB	(Lac)
S11a	5-9	0915	6480	Fri	486/00 Konets	USB	(AB/Lac)
S11a	5-9	1400	11420	Fri	429/00 Konets	USB	(AB/Lac)
S11a	6-9	0830	6433	Sat	377/00 Konets	USB	(AB/HFD)
S11a	6-9	1850	10213	Sat	288/00 Konets	USB	(AB)
S11a	7-9	0830	6433	Sun	372/00 Konets	USB	(AB/TJ)
S11a	8-9	0510	23004	Mon	654/32 Vnimanaye 64492 76655 73579 ... 25819 28345 73979 Vnimanaye (msg rptd) Konets	USB	(AB-POL/Lac)
S11a	8-9	0700	8597	Mon	test tones at 0651 and 0701z but no transmission	USB	(AB)
S11a	8-9	0915	6480	Mon	484/00 Konets	USB	(AB)
S11a	9-9	1400	11420	Tue	420/37 Vnimanaye 66786 92612 00520 ... 21151 28301 10086 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	10-9	0510	23004	Wed	654/32 Vnimanaye 64492 76655 73579 ... 25819 28345 73979 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	10-9	0725	23353	Wed	385/00 Konets	USB	(AB)
S11a	10-9	1850	10213	Wed	288/00 Konets	USB	(AB)
S11a	11-9	0445	10728	Thu	799/00 Konets	USB	(AB)
S11a	11-9	0700	8597	Thu	471/00 Konets	USB	(AB)
S11a	12-9	0725	23353	Fri	381/00 Konets	USB	(AB)
S11a	12-9	0915	6480	Fri	487/00 Konets	USB	(AB)
S11a	12-9	1400	11420	Fri	420/37 Vnimanaye 66786 92612 00520 ... 21151 28301 10086 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	13-9	0830	6433	Sat	371/39 Vnimanaye 90809 60740 67281 ... 31474 87456 08426 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	13-9	1850	10213	Sat	286/00 Konets	USB	(AB)
S11a	14-9	0830	6433	Sun	371/39 Vnimanaye 90809 60740 67281 ... 31474 87456 08426 Vnimanaye (msg rptd) Konets	USB	(AB/TJ)
S11a	15-9	0510	23004	Mon	655/00 Konets	USB	(AB-POL)
S11a	15-9	0700	8597	Mon	476/00 Konets	USB	(AB)
S11a	15-9	0915	6480	Mon	484/34 Vnimanaye 21277 41654 97982 ... 86291 74725 47597 Vnimanaye (msg rptd) Konets	USB	(Subilo)
S11a	16-9	0445	10728	Tue	791/00 Konets	USB	(AB)
S11a	16-9	1400	11420	Tue	421/00 Konets	USB	(AB/Lac)
S11a	17-9	0510	23004	Wed	656/00 Konets	USB	(AB-POL)

S11a	17-9	1850	10213	Wed	280/00 Konets	USB	(AB)
S11a	18-9	0700	8597	Thu	478/00 Konets	USB	(AB)
S11a	19-9	0725	23353	Fri	387/00 Konets	USB	(AB-POL)
S11a	19-9	0915	6480	Fri	484/34 Vnimanaye 21277 41654 97982 ... 86291 74725 47597 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	19-9	1400	11420	Fri	420/00 Konets	USB	(AB)
S11a	20-9	0830	6433	Sat	370/00 Konets	USB	(AB)
S11a	20-9	1850	10213	Sat	286/00 Konets	USB	(AB)
S11a	21-9	0830	6433	Sun	No transmission	USB	(AB)
S11a	22-9	0510	23004	Mon	No transmission	USB	(AB-POL)
S11a	22-9	0700	8597	Mon	No transmission	USB	(AB)
S11a	23-9	1400	11420	Tue	425/00 Konets	USB	(AB)
S11a	24-9	0725	23353	Wed	385/37 Vnimanaye 49160 24211 24638 ... 05181 34732 13436 Vnimanaye (msg rptd) Konets	USB	(AB-POL)
S11a	24-9	1850	10213	Wed	288/39 Vnimanaye 49629 88785 79766 ... 45719 55063 83528 Vnimanaye (msg rptd) Out	USB	(AB)
S11a	25-9	0445	10728	Thu	Active, too weak to copy	USB	(AB)
S11a	25-9	0700	8597	Thu	470/38 Vnimanaye 54128 93255 91949 ... 07308 53648 33115 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	26-9	0725	23353	Fri	385/37 Vnimanaye 49160 24211 24638 ... 05181 34732 13436 Vnimanaye (msg rptd) Konets	USB	(AB-POL/Lac)
S11a	26-9	0915	6480	Fri	481/00 Konets	USB	(AB)
S11a	26-9	1400	11420	Fri	427/00 Konets	USB	(AB)
S11a	27-9	0830	6433	Sat	373/00 Konets	USB	(AB)
S11a	27-9	1850	10213	Sat	288/39 Vnimanaye 49629 88785 79766 ... 45719 55063 83528 Vnimanaye (msg rptd) Out	USB	(AB)
S11a	28-9	0830	6433	Sun	377/00 Konets	USB	(AB)
S11a	29-9	0700	8597	Mon	475/00 Konets	USB	(AB/Lac)
S11a	30-9	0445	10728	Tue	796/00 Konets	USB	(AB)
S11a	30-9	1400	11420	Tue	425/00 Konets	USB	(AB)
UM04	1-9	0700	4735	Mon	VVV VVV PROMRCh = 01 09 = 1000 0790 0830 0940 1310 ... 0800 0730 0760 0880 1240 = AR	CW	(AB-GRC)
UM04	2-9	0700	4735	Tue	VVV VVV PROMRCh = 02 09 = 1000 0800 0840 0950 1320 ... 0800 0740 0770 0890 1250 = AR	CW	(AB-GRC)
UM04	4-9	0700	4735	Thu	VVV VVV PROMRCh = 04 09 = 1000 0830 0860 0980 1360 ... 0800 0750 0780 0910 1280 = AR	CW	(AB-GRC)
UM04	5-9	0700	4735	Fri	VVV VVV PROMRCh = 05 09 = 1000 0830 0860 0980 1360 ... 0800 0750 0780 0900 1270 = AR	CW	(AB-GRC)
UM04	6-9	0700	4735	Sat	VVV VVV PROMRCh = 06 09 = 1000 0830 0870 0990 1370 ... 0800 0750 0790 0910 1280 = AR	CW	(AB-GRC)
UM04	7-9	0700	4735	Sun	VVV VVV PROMRCh = 07 09 = 1000 0840 0870 1000 1380 ... 0800 0750 0790 0910 1290 = AR	CW	(AB-GRC)

UM04	8-9	0700	4735	Mon	VVV VVV PROMRCh = 08 09 = 1000 0840 0880 1000 1390 ... 0800 0760 0790 0920 1300 = AR	CW	(AB-GRC)
UM04	9-9	0700	4735	Tue	VVV VVV PROMRCh = 09 09 = 1000 0840 0880 1000 1400 ... 0800 0750 0790 0920 1300 = AR	CW	(AB-HNG)
UM04	10-9	0700	4735	Wed	VVV VVV PROMRCh = 10 09 = 1000 0840 0880 1000 1400 ... 0800 0750 0790 0920 1300 = AR	CW	(AB-GRC)
UM04	12-9	0700	4735	Fri	VVV VVV PROMRCh = 12 09 = 1000 0850 0880 1010 1410 ... 0800 0750 0790 0920 1310 = AR	CW	(AB-GRC)
UM04	13-9	0700	4735	Sat	VVV VVV PROMRCh = 13 09 = 1000 0850 0890 1020 1430 ... 0800 0750 0790 0920 1310 = AR	CW	(AB-GRC)
UM04	14-9	0700	4735	Sun	VVV VVV PROMRCh = 14 09 = 1000 0850 0890 1020 1430 ... 0800 0750 0790 0920 1310 = AR	CW	(AB-GRC)
UM04	15-9	0700	4735	Mon	VVV VVV PROMRCh = 15 09 = 1000 0850 0890 1020 1430 ... 0800 0740 0780 0910 1300 = AR	CW	(AB-GRC)
UM04	16-9	0700	4735	Tue	VVV VVV PROMRCh = 16 09 = 1000 0850 0890 1040 ... 0800 0740 0770 0910 1300 = AR (restart at 0709z)	CW	(AB-HNG)
UM04	17-9	0700	4735	Wed	VVV VVV PROMRCh = 17 09 = 1000 0850 0890 1020 1440 ... 0800 0730 0770 0900 1290 = AR	CW	(AB-HNG)
UM04	19-9	0700	4735	Fri	VVV VVV PROMRCh = 19 09 = 1000 0840 0870 1020 1440 ... 0800 0710 0750 0890 1280 = AR	CW	(AB-GRC)
UM04	20-9	0701	4735	Sat	VVV VVV PROMRCh = 20 09 = 1000 0830 0880 1020 1440 ... 0800 0710 0750 0890 1290 = AR	CW	(AB-HNG)
UM04	21-9	0701	4735	Sun	VVV VVV PROMRCh = 21 09 = 1000 0840 0870 1020 1450 ... 0800 0710 0750 0890 1290 = AR	CW	(AB-GRC)
UM04	24-9	0700	4735	Wed	VVV VVV PROMRCh = 24 09 = 1000 0850 0890 1030 1460 ... 0800 0720 0760 0900 1300 = AR	CW	(AB-HNG)
UM04	26-9	0700	4735	Fri	VVV VVV PROMRCh = 26 09 = 1000 0860 0900 1040 1470 ... 0800 0720 0760 0900 1310 = AR	CW	(AB-GRC)
UM04	27-9	0700	4735	Sat	VVV VVV PROMRCh = 27 09 = 1000 0870 0910 1050 1480 ... 0800 0730 0700 0910 1320 = AR	CW	(AB-HNG)
UM04	28-9	0700	4735	Sun	VVV VVV PROMRCh = 28 09 = 1000 0880 0920 1060 1490 ... 0800 0740 0780 0920 1320 = AR	CW	(AB-GRC)
UM04	29-9	0700	4735	Mon	VVV VVV PROMRCh = 29 09 = 1000 0890 0940 1070 1510 ... 0800 0750 0790 0930 1330 = AR	CW	(AB-HNG)
UM04	30-9	0700	4735	Tue	VVV VVV PROMRCh = 30 09 = 1000 0910 0950 1090 1520 ... 0800 0750 0800 0940 1340 = AR	CW	(AB-GRC)
V06	18-8	1715	10755		975 631 52 22501 86835 20132 ... 61078 68255 61456 651 52 00000	USB/LSB	(PY)
V06/E06	21-8	0856	10755	Thu	V06 "975" twice (wrong language) then E06 "975" once	USB/LSB	(PY)
V07	7-9	0200	17431	Sun	414 414 414 1 4129 110 4129 110 69486 27531 10288 ... 42849 93214 07647 000 000	USB	(Dan/HFD-USA)
V07	7-9	0220	16131	Sun	414 414 414 1 4129 110 4129 110 69486 27531 10288 ... 42849 93214 07647 000 000	USB	(HFD-USA)

V07	7-9	0240	14431	Sun	414 414 414 1 4129 110 4129 110 69486 27531 10288 ... 42849 93214 07647 000 000	USB	(HFD-USA)
V07	11-9	0600	9351	Thu	261 261 261 1 9525 51 9525 51 43856 63846 94990 ... 21448 40919 89839 000 000	USB	(PY)
V07	11-9	0610	10516	Thu	261 261 261 1 9525 51 9525 51 43856 63846 94990 ... 21448 40919 89839 000 000	USB	(PY)
V07	11-9	0620	11431	Thu	261 261 261 1 9525 51 9525 51 43856 63846 94990 ... 21448 40919 89839 000 000	USB	(PY)
V07	11-9	0700	9351	Thu	261 261 261 1 7844 51 7544 51 66561 10598 90940 ... 75430 39102 98314 000 000	USB	(PY)
V07	11-9	0710	10516	Thu	261 261 261 1 7844 51 7544 51 66561 10598 90940 ... 75430 39102 98314 000 000	USB	(PY)
V07	11-9	0720	11431	Thu	261 261 261 1 7844 51 7544 51 66561 10598 90940 ... 75430 39102 98314 000 000	USB	(PY)
V07	14-9	0200	17431	Sun	414 414 414 1 5193 98 5193 98 51192 67241 17843 ... 08787 30059 22570 000 000	USB	(Anon/Dan)
V07	14-9	0220	16131	Sun	414 414 414 1 5193 98 5193 98 51192 67241 17843 ... 08787 30059 22570 000 000	USB	(Anon)
V07	14-9	0240	14431	Sun	414 414 414 1 5193 98 5193 98 51192 67241 17843 ... 08787 30059 22570 000 000	USB	(Anon)
V07	21-9	0200	17431	Sun	414 414 414 1 5870 108 5870 108 77384 00773 17759 ... 98585 72801 14142 000 000	USB	(Dan)
V07	28-9	0200	17431	Sun	414 414 414 1 6847 95 6847 95 04854 61957 81554 ... 52480 97510 75984 000 000	USB	(AB-KOR)
V07	28-9	0220	16131	Sun	414 414 414 1 6847 95 6847 95 04854 61957 81554 ... 52480 97510 75984 000 000	USB	(AB-KOR)
V07	28-9	0240	14431	Sun	414 414 414 1 6847 95 6847 95 04854 61957 81554 ... 52480 97510 75984 000 000	USB	(AB-KOR)
V26	5-9	1131	4542	Fri	Callup in Chines voice //6876 kHz	USB	(JPL)
V26	5-9	1131	6876	Fri	Callup in Chines voice //4542 kHz	USB	(JPL)
V26	23-9	1131	6876	Tue	Message	USB	(JPL)
V26	28-9	1130	4542	Sun	Callup intro //6876 kHz	USB	(JPL)
V26	28-9	1130	6876	Sun	Callup intro //4542 kHz	USB	(JPL)
V28	1-8	1205	3048.5	Fri	Parrot	AM	(HK)
V28	1-8	1205	5487.4	Fri	Parrot	AM	(HK)
V28	7-8	1203	3051	Thu	Parrot	AM	(HK)
V28	7-8	1203	5247	Thu	Parrot	AM	(HK)
V28	8-8	1208	3007	Fri	Parrot. Spur +9kHz: 2998/3016 kHz	AM	(HK)
V28	8-8	1208	5267	Fri	Parrot	AM	(HK)
X--	18-9	1310	16127	Thu	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	18-9	1423	8172	Thu	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	19-9	1116	16153	Fri	Russian intel	MFSK-13/MFSK-21	(AB)
X--	30-9	1407	9057	Tue	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	30-9	1411	8109	Tue	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	30-9	1414	7419	Tue	Russian intel.	MFSK-13/MFSK-21	(AB)
X06	2-9	0827	13401	Tue	MFA Moscow wkg 154263: Russian embassy Rome	MFSK-6	(Moon)
X06	2-9	0900	18523	Tue	MFA Moscow wkg 325614: Russian embassy Nairobi	MFSK-6	(Moon)
X06	3-9	1229	20374	Wed	MFA Moscow wkg 231654: Russian embassy Abuja	MFSK-6	(Moon)
X06	4-9	1407	18575	Thu	MFA Moscow clg 352416: Russian embassy Dar es Salaam	MFSK-6	(AB)
X06	8-9	0954	16117	Mon	MFA Moscow clg 463125: Russian embassy Rabat	MFSK-6	(Moon)
X06	9-9	0806	17523	Tue	MFA Moscow clg 542136: Russian embassy Beijing	MFSK-6	(Moon)
X06	9-9	0808	10767	Tue	MFA Moscow clg 534216: Russian embassy Baghdad	MFSK-6	(AB/Moon)
X06	9-9	0814	13420	Tue	MFA Moscow clg 534216: Russian embassy Baghdad	MFSK-6	(AB/Moon)
X06	9-9	1326	10165	Tue	123456 (R1h40m)	MFSK-6	(Rycat)

X06	10-9	1053	12100	Wed	123456 (R1h24m)	MFSK-6	(PY)
X06	11-9	0452	12100	Thu	123456 (R1h43m)	MFSK-6	(PY)
X06	12-9	0654	11155	Fri	MFA Moscow clg 341265: Unid embassy	MFSK-6	(AB)
X06	12-9	0835	10653	Fri	MFA Moscow clg 356412: Russian embassy Berlin	MFSK-6	(AB)
X06	14-9	0924	16007	Sun	MFA Moscow clg 261453: Russian embassy Cairo	MFSK-6	(RO)
X06	14-9	1032	15810	Sun	MFA Moscow clg 145632: Russian embassy Algiers	MFSK-6	(RO)
X06	15-9	0448	12100	Mon	123456 (R1h34m)	MFSK-6	(linkz)
X06	15-9	0841	13395	Mon	MFA Moscow clg 532614: Russian embassy Paris	MFSK-6	(Moon)
X06	16-9	0836	13401	Tue	MFA Moscow clg 154263: Russian embassy Rome	MFSK-6	(AB/Moon)
X06	16-9	1149	12100	Tue	123456 (R9m)	MFSK-6	(Rycat)
X06	16-9	1705	16190	Tue	123456 (R32m)	MFSK-6	(linkz)
X06	17-9	1138	12100	Wed	654321 (R30m)	MFSK-6	(PY)
X06	17-9	1208	11090	Wed	654321 (R1h03m)	MFSK-6	(PY)
X06	17-9	1236	18245	Wed	MFA Moscow clg 231654: Russian embassy Abuja	MFSK-6	(Moon)
X06	17-9	1554	20170	Wed	654321 (R36m)	MFSK-6	(linkz)
X06	18-9	0700	19511	Thu	MFA Moscow clg 314265: Russian embassy Antananarivo	MFSK-6	(Moon)
X06	18-9	0935	20837	Thu	MFA Moscow clg 645321: Russian Consulate General Ho Chi Minh City	MFSK-6	(Moon)
X06	18-9	1443	16132	Thu	MFA Moscow clg 352416: Russian embassy Dar es Salaam	MFSK-6	(Moon)
X06	18-9	1525	17468	Thu	MFA Moscow clg 241563: Russian Consulate General Karachi (changedd to Harare at 1526z)	MFSK-6	(AB)
X06	18-9	1526	17468	Thu	MFA Moscow clg 436512: Russian embassy Harare	MFSK-6	(AB)
X06	19-9	1016	12194	Fri	MFA Moscow clg 625413: Russian embassy Tel Aviv	MFSK-6	(Moon)
X06	19-9	1629	20170	Fri	123456 (R30m)	MFSK-6	(linkz)
X06	23-9	1018	17470	Tue	MFA Moscow clg 216354: Russian Consulate General Chennai	MFSK-6	(AB)
X06	23-9	1018	17470	Tue	MFA Moscow clg 216354: Russian Consulate General Chennai	MFSK-6	(RO)
X06	23-9	1025	20813	Tue	MFA Moscow clg 216354: Russian Consulate General Chennai	MFSK-6	(RO)
X06	24-9	0744	9061	Wed	MFA Moscow clg 412356: Russian embassy Budapest	MFSK-6	(AB/RO)
X06	24-9	0800	18177	Wed	MFA Moscow clg 164253: Russian embassy Addis Ababa	MFSK-6	(AB/RO)
X06	24-9	0815	13419	Wed	MFA Moscow clg 465132: Russian embassy Sofia	MFSK-6	(AB/RO)
X06	24-9	0821	11561	Wed	MFA Moscow clg 263145: Russian embassy Prague	MFSK-6	(AB/RO)
X06	24-9	0846	18245	Wed	MFA Moscow clg 134265: Russian embassy Tunis	MFSK-6	(AB/RO)
X06	25-9	0820	16153	Thu	MFA Moscow clg 153624: Russian embassy Damascus	MFSK-6	(Moon)
X06	26-9	0826	10653	Fri	MFA Moscow clg 356412: Russian embassy Berlin	MFSK-6	(AB/RO)
X06	26-9	1003	20605	Fri	MFA Moscow clg 256134: Russian embassy Abidjan	MFSK-6	(AB/Moon)
X06	28-9	1027	17430	Sun	MFA Moscow clg 145632: Russian embassy Algiers	MFSK-6	(RO)
X06c	13-9	1630	18375	Sat	123456	MFSK-6	(AB)
X06c	16-9	1002	9230	Tue	123456	MFSK-6	(AB)
X06c	16-9	1031	10240	Tue	123456	MFSK-6	(AB)
X06c	16-9	1149	12100	Tue	123456	MFSK-6	(AB)
X06c	19-9	1630	20170	Fri	123456	MFSK-6	(AB)
X06c	20-9	1030	9230	Sat	123456	MFSK-6	(AB)
X06d/b	26-9	0751	11070	Fri	Dash (R23m30s) then MFSK-6: 111666 (R20s)	CW/MKSF-6	(PY)

XPA1	3-9	1210	12137	Wed	112 112 112 1 02401 00788 83183 ... 90819 46623 04755	MFSK-10/20Bd	(AB/HFD)
XPA1	3-9	1230	11137	Wed	112 112 112 1 02401 00788 83183 ... 90819 46623 04755	MFSK-10/20Bd	(AB/HFD)
XPA1	3-9	1250	10237	Wed	112 112 112 1 02401 00788 83183 ... 90819 46623 04755	MFSK-10/20Bd	(AB/HFD)
XPA1	5-9	1210	12137	Fri	112 112 112 1 02401 00788 83183 ... 90819 46623 04755	MFSK-10/20Bd	(AB)
XPA1	5-9	1230	11137	Fri	112 112 112 1 02401 00788 83183 ... 90819 46623 04755	MFSK-10/20Bd	(AB-POL)
XPA1	5-9	1250	10237	Fri	112 112 112 1 02401 00788 83183 ... 90819 46623 04755	MFSK-10/20Bd	(AB-POL)
XPA1	10-9	1210	12137	Wed	112 112 112 000 08197 00001 00000 35271	MFSK-10/20Bd	(AB)
XPA1	10-9	1230	11137	Wed	112 112 112 000 08197 00001 00000 35271	MFSK-10/20Bd	(AB)
XPA1	10-9	1250	10237	Wed	112 112 112 000 08197 00001 00000 35271	MFSK-10/20Bd	(AB)
XPA1	12-9	1210	12137	Fri	112 112 112 000 09727 00001 00000 40263	MFSK-10/20Bd	(AB)
XPA1	12-9	1230	11137	Fri	112 112 112 000 09727 00001 00000 40263	MFSK-10/20Bd	(AB)
XPA1	12-9	1250	10237	Fri	112 112 112 000 09727 00001 00000 40263	MFSK-10/20Bd	(AB)
XPA1	17-9	1210	12137	Wed	112 112 112 000 04966 00001 00000 40662	MFSK-10/20Bd	(AB)
XPA1	17-9	1230	11137	Wed	112 112 112 000 04966 00001 00000 40662	MFSK-10/20Bd	(AB)
XPA1	17-9	1250	10237	Wed	112 112 112 000 04966 00001 00000 40662	MFSK-10/20Bd	(AB)
XPA1	19-9	1210	12137	Fri	112 112 112 000 07341 00001 00000 33263	MFSK-10/20Bd	(AB)
XPA1	19-9	1230	11137	Fri	112 112 112 000 07341 00001 00000 33263	MFSK-10/20Bd	(AB)
XPA1	19-9	1250	10237	Fri	112 112 112 000 07341 00001 00000 33263	MFSK-10/20Bd	(AB)
XPA1	24-9	1210	12137	Wed	112 112 112 1 04159 00518 26704 ... 13175 56012 03433	MFSK-10/20Bd	(AB)
XPA1	24-9	1230	11137	Wed	112 112 112 1 04159 00518 26704 ... 13175 56012 03433	MFSK-10/20Bd	(AB)
XPA1	24-9	1250	10237	Wed	112 112 112 1 04159 00518 26704 ... 13175 56012 03433	MFSK-10/20Bd	(AB)
XPA1	26-9	1210	12137	Fri	112 112 112 1 04159 00518 26704 ... 13175 56012 03433	MFSK-10/20Bd	(AB)
XPA1	26-9	1230	11137	Fri	112 112 112 1 04159 00518 26704 ... 13175 56012 03433	MFSK-10/20Bd	(AB)
XPA1	26-9	1250	10237	Fri	112 112 112 1 04159 00518 26704 ... 13175 56012 03433	MFSK-10/20Bd	(AB)
XPA2	1-9	0700	12152	Mon	03611 00001 00000 34654	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	0720	13552	Mon	03611 00001 00000 34654	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	0740	13952	Mon	03611 00001 00000 34654	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	0910	19536	Mon	msg x18206	MFSK-16/20Bd	(HFD)
XPA2	1-9	0930	18467	Mon	msg x16329	MFSK-16/20Bd	(HFD)
XPA2	1-9	0950	16317	Mon	07310 00210 89257 ... 67141 69425 25020	MFSK-16/20Bd	(PY)
XPA2	1-9	1230	12124	Mon	01251 00292 41649 ... 10964 21669 66546	MFSK-16/20Bd	(PY)
XPA2	1-9	1240	11507	Mon	01251 00292 41649 ... 10964 21669 66546	MFSK-16/20Bd	(PY)
XPA2	1-9	1250	10754	Mon	01251 00292 41649 ... 10964 21669 66546	MFSK-16/20Bd	(PY)
XPA2	1-9	1300	9256	Mon	01251 00292 41649 ... 10964 21669 66546	MFSK-16/20Bd	(PY)
XPA2	1-9	1310	8135	Mon	01251 00292 41649 ... 10964 21669 66546	MFSK-16/20Bd	(PY)
XPA2	1-9	1320	7621	Mon	01251 00292 41649 ... 10964 21669 66546	MFSK-16/20Bd	(PY)
XPA2	1-9	1330	11469	Mon	05170 00294 92334 ... 13057 68264 51167	MFSK-16/20Bd	(PY)
XPA2	1-9	1340	10562	Mon	05170 00294 92334 ... 13057 68264 51167	MFSK-16/20Bd	(PY)
XPA2	1-9	1350	9375	Mon	05170 00294 92334 ... 13057 68264 51167	MFSK-16/20Bd	(PY)
XPA2	1-9	1400	8175	Mon	05170 00294 92334 ... 13057 68264 51167	MFSK-16/20Bd	(PY)
XPA2	1-9	1410	7672	Mon	05170 00294 92334 ... 13057 68264 51167	MFSK-16/20Bd	(PY)
XPA2	1-9	1420	6849	Mon	05170 00294 92334 ... 13057 68264 51167	MFSK-16/20Bd	(PY)

XPA2	1-9	1500	14373	Mon	43304 00001 00000 34544	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1500	14398	Mon	03543 00083 94577 ... 93821 10287 70717	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1510	13436	Mon	03543 00083 94577 ... 93821 10287 70717	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1520	13373	Mon	43304 00001 00000 34544	MFSK-16/20Bd	(AB)
XPA2	1-9	1520	12143	Mon	03543 00083 94577 ... 93821 10287 70717	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1530	11497	Mon	03543 00083 94577 ... 93821 10287 70717	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1540	10713	Mon	03543 00083 94577 ... 93821 10287 70717	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1540	11573	Mon	43304 00001 00000 34544	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1550	9351	Mon	03543 00083 94577 ... 93821 10287 70717	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1600	14398	Mon	06011 00082 53865 ... 57690 40470 46011	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1610	13436	Mon	06011 00082 53865 ... 57690 40470 46011	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1620	12143	Mon	06011 00082 53865 ... 57690 40470 46011	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1630	11497	Mon	06011 00082 53865 ... 57690 40470 46011	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1640	10713	Mon	06011 00082 53865 ... 57690 40470 46011	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1650	9351	Mon	06011 00082 53865 ... 57690 40470 46011	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1700	14398	Mon	01221 00091 02380 ... 49427 33838 16747	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1710	13436	Mon	01221 00091 02380 ... 49427 33838 16747	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1720	12143	Mon	01221 00091 02380 ... 49427 33838 16747	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1730	11497	Mon	01221 00091 02380 ... 49427 33838 16747	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1740	10713	Mon	01221 00091 02380 ... 49427 33838 16747	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1750	9351	Mon	01221 00091 02380 ... 49427 33838 16747	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1800	14398	Mon	07150 00084 25312 ... 02346 71596 25140	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1810	13436	Mon	07150 00084 25312 ... 02346 71596 25140	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1820	12143	Mon	07150 00084 25312 ... 02346 71596 25140	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1830	11497	Mon	07150 00084 25312 ... 02346 71596 25140	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1840	10713	Mon	07150 00084 25312 ... 02346 71596 25140	MFSK-16/20Bd	(AB/HFD)
XPA2	1-9	1850	9351	Mon	07150 00084 25312 ... 02346 71596 25140	MFSK-16/20Bd	(AB/HFD)
XPA2	2-9	0800	8154	Tue	01821 00149 19543 ... 15858 81853 54651	MFSK-16/20	(PY)
XPA2	2-9	0805	9341	Tue	01821 00149 19543 ... 15858 81853 54651	MFSK-16/20	(PY)
XPA2	2-9	0810	10429	Tue	01821 00149 19543 ... 15858 81853 54651	MFSK-16/20	(PY)
XPA2	2-9	0815	10735	Tue	01821 00149 19543 ... 15858 81853 54651	MFSK-16/20	(PY)
XPA2	2-9	0820	11576	Tue	01821 00149 19543 ... 15858 81853 54651	MFSK-16/20	(PY)
XPA2	2-9	0825	12197	Tue	01821 00149 19543 ... 15858 81853 54651	MFSK-16/20	(PY)
XPA2	2-9	0910	9289	Tue	01079 00141 45348 ... 09288 27469 04566	MFSK-16/20Bd	(PY)
XPA2	2-9	0915	10346	Tue	01079 00141 45348 ... 09288 27469 04566	MFSK-16/20Bd	(PY)
XPA2	2-9	0920	10713	Tue	01079 00141 45348 ... 09288 27469 04566	MFSK-16/20Bd	(PY)
XPA2	2-9	0925	11434	Tue	01079 00141 45348 ... 09288 27469 04566	MFSK-16/20Bd	(PY)
XPA2	2-9	0930	12161	Tue	01079 00141 45348 ... 09288 27469 04566	MFSK-16/20Bd	(PY)
XPA2	2-9	0935	13394	Tue	01079 00141 45348 ... 09288 27469 04566	MFSK-16/20Bd	(PY)
XPA2	2-9	1100	13431	Tue	06790 00669 80457 ... 90226 25529 41304	MFSK-16/20Bd	(AB/HFD)
XPA2	2-9	1120	12131	Tue	06790 00669 80457 ... 90226 25529 41304	MFSK-16/20Bd	(AB/HFD)
XPA2	2-9	1140	11431	Tue	06790 00669 80457 ... 90226 25529 41304	MFSK-16/20Bd	(AB/HFD)

XPA2	2-9	1500	14398	Tue	09229 00089 08361 ... 51078 24573 33651	MFSK-16/20Bd	(AB)
XPA2	2-9	1510	13436	Tue	09229 00089 08361 ... 51078 24573 33651	MFSK-16/20Bd	(AB)
XPA2	2-9	1520	12143	Tue	09229 00089 08361 ... 51078 24573 33651	MFSK-16/20Bd	(AB)
XPA2	2-9	1530	11497	Tue	09229 00089 08361 ... 51078 24573 33651	MFSK-16/20Bd	(AB)
XPA2	2-9	1540	10713	Tue	09229 00089 08361 ... 51078 24573 33651	MFSK-16/20Bd	(AB)
XPA2	2-9	1550	9351	Tue	09229 00089 08361 ... 51078 24573 33651	MFSK-16/20Bd	(AB)
XPA2	2-9	1600	14398	Tue	03619 00085 84177 ... 63843 97811 55730	MFSK-16/20Bd	(AB)
XPA2	2-9	1610	13436	Tue	03619 00085 84177 ... 63843 97811 55730	MFSK-16/20Bd	(AB)
XPA2	2-9	1620	12143	Tue	03619 00085 84177 ... 63843 97811 55730	MFSK-16/20Bd	(AB)
XPA2	2-9	1630	11497	Tue	03619 00085 84177 ... 63843 97811 55730	MFSK-16/20Bd	(AB)
XPA2	2-9	1640	10713	Tue	03619 00085 84177 ... 63843 97811 55730	MFSK-16/20Bd	(AB)
XPA2	2-9	1650	9351	Tue	03619 00085 84177 ... 63843 97811 55730	MFSK-16/20Bd	(AB)
XPA2	2-9	1700	14398	Tue	01944 00093 37633 ... 35156 53218 75331	MFSK-16/20Bd	(AB)
XPA2	2-9	1700	17426	Tue	msg x1600 13887	MFSK-16/20Bd	(HFD)
XPA2	2-9	1700	17426	Tue	03855 00000 0000 26660	MFSK-16/20Bd	(PY/HFD)
XPA2	2-9	1710	13436	Tue	01944 00093 37633 ... 35156 53218 75331	MFSK-16/20Bd	(AB)
XPA2	2-9	1720	12143	Tue	01944 00093 37633 ... 35156 53218 75331	MFSK-16/20Bd	(AB)
XPA2	2-9	1720	16274	Tue	03855 00000 0000 26660	MFSK-16/20Bd	(PY/HFD)
XPA2	2-9	1730	11497	Tue	01944 00093 37633 ... 35156 53218 75331	MFSK-16/20Bd	(AB)
XPA2	2-9	1740	10713	Tue	01944 00093 37633 ... 35156 53218 75331	MFSK-16/20Bd	(AB)
XPA2	2-9	1740	14939	Tue	03855 00000 0000 26660	MFSK-16/20Bd	(PY/HFD)
XPA2	2-9	1750	9351	Tue	01944 00093 37633 ... 35156 53218 75331	MFSK-16/20Bd	(AB)
XPA2	2-9	1800	14398	Tue	02178 00093 44795 ... 63687 90377 06727	MFSK-16/20Bd	(AB)
XPA2	2-9	1810	13436	Tue	02178 00093 44795 ... 63687 90377 06727	MFSK-16/20Bd	(AB)
XPA2	2-9	1820	12143	Tue	02178 00093 44795 ... 63687 90377 06727	MFSK-16/20Bd	(AB)
XPA2	2-9	1830	11497	Tue	02178 00093 44795 ... 63687 90377 06727	MFSK-16/20Bd	(AB)
XPA2	2-9	1840	10713	Tue	02178 00093 44795 ... 63687 90377 06727	MFSK-16/20Bd	(AB)
XPA2	2-9	1850	9351	Tue	02178 00093 44795 ... 63687 90377 06727	MFSK-16/20Bd	(AB)
XPA2	3-9	0700	12152	Wed	06694 00001 00000 36267	MFSK-16/20Bd	(AB)
XPA2	3-9	0720	13552	Wed	06694 00001 00000 36267	MFSK-16/20Bd	(AB)
XPA2	3-9	0740	13952	Wed	06694 00001 00000 36267	MFSK-16/20Bd	(AB)
XPA2	3-9	0820	9289	Wed	08500 00050 83646... 69960 92332 04644	MFSK-16/20Bd	(PY)
XPA2	3-9	0825	10346	Wed	08500 00050 83646... 69960 92332 04644	MFSK-16/20Bd	(PY)
XPA2	3-9	0910	19536	Wed	07310 00210 89257 ... 67141 69425 25020	MFSK-16/20Bd	(AB)
XPA2	3-9	0930	18467	Wed	07310 00210 89257 ... 67141 69425 25020	MFSK-16/20Bd	(AB)
XPA2	3-9	0930	10713	Wed	08500 00050 83646... 69960 92332 04644	MFSK-16/20Bd	(PY)
XPA2	3-9	0935	11434	Wed	08500 00050 83646... 69960 92332 04644	MFSK-16/20Bd	(PY)
XPA2	3-9	0940	12161	Wed	08500 00050 83646... 69960 92332 04644	MFSK-16/20Bd	(PY)
XPA2	3-9	0945	13394	Wed	08500 00050 83646... 69960 92332 04644	MFSK-16/20Bd	(PY)
XPA2	3-9	0950	16317	Wed	07310 00210 89257 ... 67141 69425 25020	MFSK-16/20Bd	(AB)
XPA2	3-9	1100	16117	Wed	03351 00303 56930 ... 66985 66305 63077	MFSK-16/20Bd	(AB/HFD)
XPA2	3-9	1120	14917	Wed	03351 00303 56930 ... 66985 66305 63077	MFSK-16/20Bd	(AB/HFD)

XPA2	3-9	1140	13517	Wed	03351 00303 56930 ... 66985 66305 63077	MFSK-16/20Bd	(AB/HFD)
XPA2	3-9	1500	14398	Wed	03775 00097 20508 ... 29978 86869 71362	MFSK-16/20Bd	(AB)
XPA2	3-9	1510	13436	Wed	03775 00097 20508 ... 29978 86869 71362	MFSK-16/20Bd	(AB)
XPA2	3-9	1520	12143	Wed	03775 00097 20508 ... 29978 86869 71362	MFSK-16/20Bd	(AB)
XPA2	3-9	1530	11497	Wed	03775 00097 20508 ... 29978 86869 71362	MFSK-16/20Bd	(AB)
XPA2	3-9	1540	10713	Wed	03775 00097 20508 ... 29978 86869 71362	MFSK-16/20Bd	(AB)
XPA2	3-9	1550	9351	Wed	03775 00097 20508 ... 29978 86869 71362	MFSK-16/20Bd	(AB)
XPA2	3-9	1600	14398	Wed	09025 00084 25331 ... 96195 71451 01345	MFSK-16/20Bd	(AB)
XPA2	3-9	1610	13436	Wed	09025 00084 25331 ... 96195 71451 01345	MFSK-16/20Bd	(AB)
XPA2	3-9	1620	12143	Wed	09025 00084 25331 ... 96195 71451 01345	MFSK-16/20Bd	(AB)
XPA2	3-9	1630	11497	Wed	09025 00084 25331 ... 96195 71451 01345	MFSK-16/20Bd	(AB)
XPA2	3-9	1640	10713	Wed	09025 00084 25331 ... 96195 71451 01345	MFSK-16/20Bd	(AB)
XPA2	3-9	1650	9351	Wed	09025 00084 25331 ... 96195 71451 01345	MFSK-16/20Bd	(AB)
XPA2	3-9	1700	14398	Wed	04441 00087 31958... 60679 18680 64315	MFSK-16/20Bd	(AB)
XPA2	3-9	1710	13436	Wed	04441 00087 31958... 60679 18680 64315	MFSK-16/20Bd	(AB)
XPA2	3-9	1720	12143	Wed	04441 00087 31958... 60679 18680 64315	MFSK-16/20Bd	(AB)
XPA2	3-9	1730	11497	Wed	04441 00087 31958... 60679 18680 64315	MFSK-16/20Bd	(AB)
XPA2	3-9	1740	10713	Wed	04441 00087 31958... 60679 18680 64315	MFSK-16/20Bd	(AB)
XPA2	3-9	1750	9351	Wed	04441 00087 31958... 60679 18680 64315	MFSK-16/20Bd	(AB)
XPA2	3-9	1800	14398	Wed	06927 00097 08665 ... 63084 28965 04716	MFSK-16/20Bd	(AB)
XPA2	3-9	1800	16351	Wed	00317 00148 30704 ... 07464 61877 37431	MFSK-16/20Bd	(AB/HFD)
XPA2	3-9	1810	13436	Wed	06927 00097 08665 ... 63084 28965 04716	MFSK-16/20Bd	(AB)
XPA2	3-9	1820	12143	Wed	06927 00097 08665 ... 63084 28965 04716	MFSK-16/20Bd	(AB)
XPA2	3-9	1820	14851	Wed	00317 00148 30704 ... 07464 61877 37431	MFSK-16/20Bd	(AB/HFD)
XPA2	3-9	1830	11497	Wed	06927 00097 08665 ... 63084 28965 04716	MFSK-16/20Bd	(AB)
XPA2	3-9	1840	10713	Wed	06927 00097 08665 ... 63084 28965 04716	MFSK-16/20Bd	(AB)
XPA2	3-9	1840	13951	Wed	00317 00148 30704 ... 07464 61877 37431	MFSK-16/20Bd	(AB/HFD)
XPA2	3-9	1850	9351	Wed	06927 00097 08665 ... 63084 28965 04716	MFSK-16/20Bd	(AB)
XPA2	4-9	0900	19572	Thu	07511 00001 00000 34260	MFSK-16/20Bd	(PY/HFD)
XPA2	4-9	0940	17471	Thu	07511 00001 00000 34260	MFSK-16/20Bd	(PY/HFD)
XPA2	4-9	1100	16117	Thu	03351 00303 56930 ... 66985 66305 63077	MFSK-16/20Bd	(AB)
XPA2	4-9	1120	14917	Thu	03351 00303 56930 ... 66985 66305 63077	MFSK-16/20Bd	(AB)
XPA2	4-9	1140	13517	Thu	03351 00303 56930 ... 66985 66305 63077	MFSK-16/20Bd	(AB)
XPA2	4-9	1500	14398	Thu	02517 00091 92399 ... 61020 72032 40325	MFSK-16/20Bd	(AB)
XPA2	4-9	1510	13436	Thu	02517 00091 92399 ... 61020 72032 40325	MFSK-16/20Bd	(AB)
XPA2	4-9	1520	12143	Thu	02517 00091 92399 ... 61020 72032 40325	MFSK-16/20Bd	(AB)
XPA2	4-9	1530	11497	Thu	02517 00091 92399 ... 61020 72032 40325	MFSK-16/20Bd	(AB)
XPA2	4-9	1540	10713	Thu	02517 00091 92399 ... 61020 72032 40325	MFSK-16/20Bd	(AB)
XPA2	4-9	1550	9351	Thu	02517 00091 92399 ... 61020 72032 40325	MFSK-16/20Bd	(AB)
XPA2	4-9	1600	14398	Thu	06869 00093 76064 ... 92872 80367 04256	MFSK-16/20Bd	(AB)
XPA2	4-9	1610	13436	Thu	06869 00093 76064 ... 92872 80367 04256	MFSK-16/20Bd	(AB)
XPA2	4-9	1620	12143	Thu	06869 00093 76064 ... 92872 80367 04256	MFSK-16/20Bd	(AB)

XPA2	4-9	1630	11497	Thu	06869 00093 76064 ... 92872 80367 04256	MFSK-16/20Bd	(AB)
XPA2	4-9	1640	10713	Thu	06869 00093 76064 ... 92872 80367 04256	MFSK-16/20Bd	(AB)
XPA2	4-9	1650	9351	Thu	06869 00093 76064 ... 92872 80367 04256	MFSK-16/20Bd	(AB)
XPA2	4-9	1700	14398	Thu	03766 00086 53362 ... 05345 37909 67105	MFSK-16/20Bd	(AB)
XPA2	4-9	1700	17426	Thu	02476 00001 00000 36261	MFSK-16/20Bd	(AB)
XPA2	4-9	1710	13436	Thu	03766 00086 53362 ... 05345 37909 67105	MFSK-16/20Bd	(AB)
XPA2	4-9	1720	12143	Thu	03766 00086 53362 ... 05345 37909 67105	MFSK-16/20Bd	(AB)
XPA2	4-9	1720	16274	Thu	02476 00001 00000 36261	MFSK-16/20Bd	(AB)
XPA2	4-9	1730	11497	Thu	03766 00086 53362 ... 05345 37909 67105	MFSK-16/20Bd	(AB)
XPA2	4-9	1740	10713	Thu	03766 00086 53362 ... 05345 37909 67105	MFSK-16/20Bd	(AB)
XPA2	4-9	1740	14939	Thu	02476 00001 00000 36261	MFSK-16/20Bd	(AB)
XPA2	4-9	1750	9351	Thu	03766 00086 53362 ... 05345 37909 67105	MFSK-16/20Bd	(AB)
XPA2	4-9	1800	14398	Thu	03160 00095 53050 ... 77800 88026 63606	MFSK-16/20Bd	(AB)
XPA2	4-9	1810	13436	Thu	03160 00095 53050 ... 77800 88026 63606	MFSK-16/20Bd	(AB)
XPA2	4-9	1820	12143	Thu	03160 00095 53050 ... 77800 88026 63606	MFSK-16/20Bd	(AB)
XPA2	4-9	1830	11497	Thu	03160 00095 53050 ... 77800 88026 63606	MFSK-16/20Bd	(AB)
XPA2	4-9	1840	10713	Thu	03160 00095 53050 ... 77800 88026 63606	MFSK-16/20Bd	(AB)
XPA2	4-9	1850	9351	Thu	03160 00095 53050 ... 77800 88026 63606	MFSK-16/20Bd	(AB)
XPA2	5-9	1100	13431	Fri	06790 00669 80457 ... 90226 25529 41304	MFSK-16/20Bd	(AB)
XPA2	5-9	1120	12131	Fri	06790 00669 80457 ... 90226 25529 41304	MFSK-16/20Bd	(AB)
XPA2	5-9	1140	11431	Fri	06790 00669 80457 ... 90226 25529 41304	MFSK-16/20Bd	(AB)
XPA2	5-9	1800	16351	Fri	00317 00148 30704 ... 07464 61877 37431	MFSK-16/20Bd	(AB)
XPA2	5-9	1820	14851	Fri	00317 00148 30704 ... 07464 61877 37431	MFSK-16/20Bd	(AB)
XPA2	5-9	1840	13951	Fri	00317 00148 30704 ... 07464 61877 37431	MFSK-16/20Bd	(AB)
XPA2	6-9	0900	19572	Sat	05570 00001 00000 33664	MFSK-16/20Bd	(AB)
XPA2	6-9	0920	18054	Sat	05570 00001 00000 33664	MFSK-16/20Bd	(AB)
XPA2	6-9	0940	17471	Sat	05570 00001 00000 33664	MFSK-16/20Bd	(AB)
XPA2	6-9	1500	14373	Sat	06482 00001 00000 34266	MFSK-16/20Bd	(AB)
XPA2	6-9	1520	13373	Sat	06482 00001 00000 34266	MFSK-16/20Bd	(AB)
XPA2	6-9	1540	11573	Sat	06482 00001 00000 34266	MFSK-16/20Bd	(AB)
XPA2	8-9	0700	12152	Mon	00177 00127 49206 ... 84758 64696 73103	MFSK-16/20Bd	(AB/TJ)
XPA2	8-9	0720	13552	Mon	00177 00127 49206 ... 84758 64696 73103	MFSK-16/20Bd	(AB)
XPA2	8-9	0740	13952	Mon	00177 00127 49206 ... 84758 64696 73103	MFSK-16/20Bd	(AB)
XPA2	8-9	0910	19536	Mon	07789 00001 00000 41270	MFSK-16/20Bd	(AB)
XPA2	8-9	0930	18467	Mon	07789 00001 00000 41270	MFSK-16/20Bd	(AB)
XPA2	8-9	0950	16317	Mon	07789 00001 00000 41270	MFSK-16/20Bd	(AB)
XPA2	8-9	1500	14373	Mon	09937 00122 00650 .. 62734 55078 70254	MFSK-16/20Bd	(AB)
XPA2	8-9	1520	13373	Mon	09937 00122 00650 .. 62734 55078 70254	MFSK-16/20Bd	(AB)
XPA2	8-9	1540	11573	Mon	09937 00122 00650 .. 62734 55078 70254	MFSK-16/20Bd	(AB)
XPA2	9-9	1100	13431	Tue	01092 00492 49573 ... 17256 73375 63424	MFSK-16/20Bd	(AB)
XPA2	9-9	1120	12131	Tue	01092 00492 49573 ... 17256 73375 63424	MFSK-16/20Bd	(AB)
XPA2	9-9	1140	11431	Tue	01092 00492 49573 ... 17256 73375 63424	MFSK-16/20Bd	(AB)

XPA2	9-9	1700	17426	Tue	00213 00083 30017 13367 22034 12716	MFSK-16/20Bd	(AB)
XPA2	9-9	1720	16274	Tue	00213 00083 30017 13367 22034 12716	MFSK-16/20Bd	(AB)
XPA2	9-9	1740	14939	Tue	00213 00083 30017 13367 22034 12716	MFSK-16/20Bd	(AB)
XPA2	10-9	0700	12152	Wed	00177 00127 49206 ... 84758 64696 73103	MFSK-16/20Bd	(AB)
XPA2	10-9	0720	13552	Wed	00177 00127 49206 ... 84758 64696 73103	MFSK-16/20Bd	(AB)
XPA2	10-9	0740	13952	Wed	00177 00127 49206 ... 84758 64696 73103	MFSK-16/20Bd	(AB)
XPA2	10-9	0910	19536	Wed	01084 00001 00000 33261	MFSK-16/20Bd	(AB)
XPA2	10-9	0930	18467	Wed	01084 00001 00000 33261	MFSK-16/20Bd	(AB)
XPA2	10-9	0950	16317	Wed	01084 00001 00000 33261	MFSK-16/20Bd	(AB)
XPA2	10-9	1100	16117	Wed	06837 00001 00000 40661	MFSK-16/20Bd	(AB)
XPA2	10-9	1120	14917	Wed	06837 00001 00000 40661	MFSK-16/20Bd	(AB)
XPA2	10-9	1140	13517	Wed	06837 00001 00000 40661	MFSK-16/20Bd	(AB)
XPA2	10-9	1800	16351	Wed	05942 00096 68106 ... 64656 46314 76166	MFSK-16/20Bd	(AB)
XPA2	10-9	1820	14851	Wed	05942 00096 68106 ... 64656 46314 76166	MFSK-16/20Bd	(AB)
XPA2	10-9	1840	13951	Wed	05942 00096 68106 ... 64656 46314 76166	MFSK-16/20Bd	(AB)
XPA2	11-9	0900	19572	Thu	01349 00340 95942 ... 90213 84852 65263	MFSK-16/20Bd	(AB)
XPA2	11-9	0920	18054	Thu	01349 00340 95942 ... 90213 84852 65263	MFSK-16/20Bd	(AB)
XPA2	11-9	0940	17471	Thu	01349 00340 95942 ... 90213 84852 65263	MFSK-16/20Bd	(AB)
XPA2	11-9	1100	16117	Thu	05433 00001 00000 34660	MFSK-16/20Bd	(AB)
XPA2	11-9	1120	14917	Thu	05433 00001 00000 34660	MFSK-16/20Bd	(AB)
XPA2	11-9	1140	13517	Thu	05433 00001 00000 34660	MFSK-16/20Bd	(AB)
XPA2	11-9	1700	17426	Thu	00213 00083 30017 13367 22034 12716	MFSK-16/20Bd	(AB)
XPA2	11-9	1720	16274	Thu	00213 00083 30017 13367 22034 12716	MFSK-16/20Bd	(AB)
XPA2	11-9	1740	14939	Thu	00213 00083 30017 13367 22034 12716	MFSK-16/20Bd	(AB)
XPA2	12-9	1100	13431	Fri	01092 00492 49573 ... 17256 73375 63424	MFSK-16/20Bd	(AB)
XPA2	12-9	1120	12131	Fri	01092 00492 49573 ... 17256 73375 63424	MFSK-16/20Bd	(AB)
XPA2	12-9	1140	11431	Fri	01092 00492 49573 ... 17256 73375 63424	MFSK-16/20Bd	(AB)
XPA2	12-9	1800	16351	Fri	05942 00096 68106 ... 64656 46314 76166	MFSK-16/20Bd	(AB)
XPA2	12-9	1820	14851	Fri	05942 00096 68106 ... 64656 46314 76166	MFSK-16/20Bd	(AB)
XPA2	12-9	1840	13951	Fri	05942 00096 68106 ... 64656 46314 76166	MFSK-16/20Bd	(AB)
XPA2	13-9	0900	19572	Sat	01349 00340 95942 ... 90213 84852 65263	MFSK-16/20Bd	(AB)
XPA2	13-9	0920	18054	Sat	01349 00340 95942 ... 90213 84852 65263	MFSK-16/20Bd	(AB)
XPA2	13-9	0940	17471	Sat	01349 00340 95942 ... 90213 84852 65263	MFSK-16/20Bd	(AB)
XPA2	13-9	1500	14373	Sat	09937 00122 00650 .. 62734 55078 70254	MFSK-16/20Bd	(AB/Ringo)
XPA2	13-9	1520	13373	Sat	09937 00122 00650 .. 62734 55078 70254	MFSK-16/20Bd	(AB)
XPA2	13-9	1540	11573	Sat	09937 00122 00650 .. 62734 55078 70254	MFSK-16/20Bd	(AB)
XPA2	15-9	0700	12152	Mon	00177 00127 49206 ... 84758 64696 73103	MFSK-16/20Bd	(AB)
XPA2	15-9	0720	13552	Mon	00177 00127 49206 ... 84758 64696 73103	MFSK-16/20Bd	(AB)
XPA2	15-9	0740	13952	Mon	00177 00127 49206 ... 84758 64696 73103	MFSK-16/20Bd	(AB)
XPA2	15-9	0910	19536	Mon	09192 00647 12107 ... 25109 51329 33727	MFSK-16/20Bd	(AB)
XPA2	15-9	0930	18467	Mon	09192 00647 12107 ... 25109 51329 33727	MFSK-16/20Bd	(AB)
XPA2	15-9	0950	16317	Mon	09192 00647 12107 ... 25109 51329 33727	MFSK-16/20Bd	(AB)

XPA2	15-9	1500	14373	Mon	09344 00001 00000 34665	MFSK-16/20Bd	(AB)
XPA2	15-9	1520	13373	Mon	09344 00001 00000 34665	MFSK-16/20Bd	(AB)
XPA2	15-9	1540	11573	Mon	09344 00001 00000 34665	MFSK-16/20Bd	(AB)
XPA2	16-9	1100	13431	Tue	06170 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16-9	1120	12131	Tue	06170 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16-9	1140	11431	Tue	06170 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16-9	1700	17426	Tue	01294 00001 00000 34262	MFSK-16/20Bd	(AB)
XPA2	16-9	1720	16274	Tue	01294 00001 00000 34262	MFSK-16/20Bd	(AB)
XPA2	16-9	1740	14939	Tue	01294 00001 00000 34262	MFSK-16/20Bd	(AB)
XPA2	17-9	0700	12152	Wed	00177 00127 49206 ... 84758 64696 73103	MFSK-16/20Bd	(AB)
XPA2	17-9	0720	13552	Wed	00177 00127 49206 ... 84758 64696 73103	MFSK-16/20Bd	(AB)
XPA2	17-9	0740	13952	Wed	00177 00127 49206 ... 84758 64696 73103	MFSK-16/20Bd	(AB)
XPA2	17-9	0910	19536	Wed	09192 00647 12107 ... 25109 51329 33727	MFSK-16/20Bd	(AB)
XPA2	17-9	0930	18467	Wed	09192 00647 12107 ... 25109 51329 33727	MFSK-16/20Bd	(AB)
XPA2	17-9	0950	16317	Wed	09192 00647 12107 ... 25109 51329 33727	MFSK-16/20Bd	(AB)
XPA2	17-9	1100	16117	Wed	06214 00873 48074 ... 83926 15894 00566	MFSK-16/20Bd	(AB/EW)
XPA2	17-9	1120	14917	Wed	06214 00873 48074 ... 83926 15894 00566	MFSK-16/20Bd	(AB)
XPA2	17-9	1140	13517	Wed	06214 00873 48074 ... 83926 15894 00566	MFSK-16/20Bd	(AB)
XPA2	17-9	1800	16351	Wed	03005 00267 90045 ... 35403 67161 22212	MFSK-16/20Bd	(AB)
XPA2	17-9	1820	14851	Wed	03005 00267 90045 ... 35403 67161 22212	MFSK-16/20Bd	(AB)
XPA2	17-9	1840	13951	Wed	03005 00267 90045 ... 35403 67161 22212	MFSK-16/20Bd	(AB)
XPA2	18-9	0900	19572	Thu	05970 00001 00000 35664	MFSK-16/20Bd	(AB)
XPA2	18-9	0920	18054	Thu	05970 00001 00000 35664	MFSK-16/20Bd	(AB)
XPA2	18-9	0940	17471	Thu	05970 00001 00000 35664	MFSK-16/20Bd	(AB)
XPA2	18-9	1100	16117	Thu	06214 00873 48074 ... 83926 15894 00566	MFSK-16/20Bd	(AB)
XPA2	18-9	1120	14917	Thu	06214 00873 48074 ... 83926 15894 00566	MFSK-16/20Bd	(AB)
XPA2	18-9	1140	13517	Thu	06214 00873 48074 ... 83926 15894 00566	MFSK-16/20Bd	(AB)
XPA2	18-9	1700	17426	Thu	02883 00001 00000 36662	MFSK-16/20Bd	(AB)
XPA2	18-9	1720	16274	Thu	02883 00001 00000 36662	MFSK-16/20Bd	(AB)
XPA2	18-9	1740	14939	Thu	02883 00001 00000 36662	MFSK-16/20Bd	(AB)
XPA2	19-9	1100	13431	Fri	02768 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	19-9	1120	12131	Fri	02768 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	19-9	1140	11431	Fri	02768 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	19-9	1800	16351	Fri	03005 00267 90045 ... 35403 67161 22212	MFSK-16/20Bd	(AB)
XPA2	19-9	1820	14851	Fri	03005 00267 90045 ... 35403 67161 22212	MFSK-16/20Bd	(AB)
XPA2	19-9	1840	13951	Fri	03005 00267 90045 ... 35403 67161 22212	MFSK-16/20Bd	(AB)
XPA2	20-9	0900	19572	Sat	06329 00001 00000 37260	MFSK-16/20Bd	(AB)
XPA2	20-9	0920	18054	Sat	06329 00001 00000 37260	MFSK-16/20Bd	(AB)
XPA2	20-9	0940	17471	Sat	06329 00001 00000 37260	MFSK-16/20Bd	(AB)
XPA2	20-9	1500	14373	Sat	01598 00001 00000 37662	MFSK-16/20Bd	(AB)
XPA2	20-9	1520	13373	Sat	01598 00001 00000 37662	MFSK-16/20Bd	(AB)
XPA2	20-9	1540	11573	Sat	01598 00001 00000 37662	MFSK-16/20Bd	(AB)

XPA2	22-9	0700	12152	Mon	00423 00565 15855 ... 77000 28884 54550	MFSK-16/20Bd	(AB)
XPA2	22-9	0720	13552	Mon	00423 00565 15855 ... 77000 28884 54550	MFSK-16/20Bd	(AB)
XPA2	22-9	0740	13952	Mon	00423 00565 15855 ... 77000 28884 54550	MFSK-16/20Bd	(AB)
XPA2	22-9	0910	19536	Mon	00856 00751 27965 ... 22655 45525 43320	MFSK-16/20Bd	(AB)
XPA2	22-9	0930	18467	Mon	00856 00751 27965 ... 22655 45525 43320	MFSK-16/20Bd	(AB)
XPA2	22-9	0950	16317	Mon	00856 00751 27965 ... 22655 45525 43320	MFSK-16/20Bd	(AB)
XPA2	22-9	1500	14373	Mon	00787 00159 70844 ... 85321 82639 06707	MFSK-16/20Bd	(AB)
XPA2	22-9	1520	13373	Mon	00787 00159 70844 ... 85321 82639 06707	MFSK-16/20Bd	(AB)
XPA2	22-9	1540	11573	Mon	00787 00159 70844 ... 85321 82639 06707	MFSK-16/20Bd	(AB)
XPA2	23-9	1100	13431	Tue	08878 00439 77443 ... 09105 25762 11645	MFSK-16/20Bd	(AB)
XPA2	23-9	1120	12131	Tue	08878 00439 77443 ... 09105 25762 11645	MFSK-16/20Bd	(AB)
XPA2	23-9	1140	11431	Tue	08878 00439 77443 ... 09105 25762 11645	MFSK-16/20Bd	(AB)
XPA2	23-9	1700	17426	Tue	09597 00095 59298 ... 67126 09994 66735	MFSK-16/20Bd	(AB)
XPA2	23-9	1720	16274	Tue	09597 00095 59298 ... 67126 09994 66735	MFSK-16/20Bd	(AB)
XPA2	23-9	1740	14939	Tue	09597 00095 59298 ... 67126 09994 66735	MFSK-16/20Bd	(AB)
XPA2	24-9	0700	12152	Wed	00423 00565 15855 ... 77000 28884 54550	MFSK-16/20Bd	(AB)
XPA2	24-9	0720	13552	Wed	00423 00565 15855 ... 77000 28884 54550	MFSK-16/20Bd	(AB)
XPA2	24-9	0740	13952	Wed	00423 00565 15855 ... 77000 28884 54550	MFSK-16/20Bd	(AB)
XPA2	24-9	0910	19536	Wed	00856 00751 27965 ... 22655 45525 43320	MFSK-16/20Bd	(AB)
XPA2	24-9	0930	18467	Wed	00856 00751 27965 ... 22655 45525 43320	MFSK-16/20Bd	(AB)
XPA2	24-9	0950	16317	Wed	00856 00751 27965 ... 22655 45525 43320	MFSK-16/20Bd	(AB)
XPA2	24-9	1100	16117	Wed	08672 00001 00000 35267	MFSK-16/20Bd	(AB)
XPA2	24-9	1120	14917	Wed	08672 00001 00000 35267	MFSK-16/20Bd	(AB)
XPA2	24-9	1125	16287	Wed	06931 00165 48051 ... 09999 41795 51146	MFSK-16/20Bd	(PY)
XPA2	24-9	1135	14506	Wed	06931 00165 48051 ... 09999 41795 51146	MFSK-16/20Bd	(PY)
XPA2	24-9	1140	13517	Wed	08672 00001 00000 35267	MFSK-16/20Bd	(AB)
XPA2	24-9	1140	16287	Wed	Too weak to copy	MFSK-16/20Bd	(PY)
XPA2	24-9	1200	18048	Wed	00647 00241 61740 ... 78511 36688 (no further deocde possible. Too weak and too noisy to copy)	MFSK-16/20Bd	(PY)
XPA2	24-9	1210	17473	Wed	00647 00241 61740 ... 78511 36688 (no further deocde possible. Too weak and too noisy to copy)	MFSK-16/20Bd	(PY)
XPA2	24-9	1220	16079	Wed	00647 00241 61740 ... 78511 36688 (no further deocde possible. Too weak and too noisy to copy)	MFSK-16/20Bd	(PY)
XPA2	24-9	1230	15858	Wed	00647 00241 61740 ... 78511 36688 (no further deocde possible. Too weak and too noisy to copy)	MFSK-16/20Bd	(PY)
XPA2	24-9	1240	14581	Wed	00647 00241 61740 ... 78511 36688 (no further deocde possible. Too weak and too noisy to copy)	MFSK-16/20Bd	(PY)
XPA2	24-9	1300	17454	Wed	00321 00244 82858 ... 39300 71829 70571	MFSK-16/20Bd	(PY)
XPA2	24-9	1310	16041	Wed	00321 00244 82858 ... 39300 71829 70571	MFSK-16/20Bd	(PY)
XPA2	24-9	1320	15865	Wed	00321 00244 82858 ... 39300 71829 70571	MFSK-16/20Bd	(PY)
XPA2	24-9	1330	14494	Wed	00321 00244 82858 ... 39300 71829 70571	MFSK-16/20Bd	(PY)
XPA2	24-9	1340	13958	Wed	00321 00244 82858 ... 39300 71829 70571	MFSK-16/20Bd	(PY)

XPA2	24-9	1400	16319	Wed	00568 00234 00669 ... 10382 20385 00111	MFSK-16/20Bd	(PY)
XPA2	24-9	1410	15874	Wed	00568 00234 00669 ... 10382 20385 00111	MFSK-16/20Bd	(PY)
XPA2	24-9	1420	14844	Wed	00568 00234 00669 ... 10382 20385 00111	MFSK-16/20Bd	(PY)
XPA2	24-9	1430	14368	Wed	00568 00234 00669 ... 10382 20385 00111	MFSK-16/20Bd	(PY)
XPA2	24-9	1440	13921	Wed	00568 00234 00669 ... 10382 20385 00111	MFSK-16/20Bd	(PY)
XPA2	24-9	1500	16047	Wed	00930 00228 95765 ... 90068 52876 66566	MFSK-16/20Bd	(PY)
XPA2	24-9	1510	15856	Wed	00930 00228 95765 ... 90068 52876 66566	MFSK-16/20Bd	(PY)
XPA2	24-9	1520	14896	Wed	00930 00228 95765 ... 90068 52876 66566	MFSK-16/20Bd	(PY)
XPA2	24-9	1530	14379	Wed	00930 00228 95765 ... 90068 52876 66566	MFSK-16/20Bd	(PY)
XPA2	24-9	1540	13883	Wed	00930 00228 95765 ... 90068 52876 66566	MFSK-16/20Bd	(PY)
XPA2	24-9	1800	16351	Wed	09159 00310 14458 ... 88447 34735 60344	MFSK-16/20Bd	(AB)
XPA2	24-9	1820	14851	Wed	09159 00310 14458 ... 88447 34735 60344	MFSK-16/20Bd	(AB)
XPA2	24-9	1840	13951	Wed	09159 00310 14458 ... 88447 34735 60344	MFSK-16/20Bd	(AB)
XPA2	25-9	0520	19591	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0520	20235	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0530	18386	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0530	19541	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0540	17444	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0540	18336	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0550	17474	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0600	20961	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0610	20384	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0610	20911	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0620	19293	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0620	20334	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0630	18666	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0630	19253	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0640	17461	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0640	18616	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0650	17421	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0700	20888	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0710	20058	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0710	20838	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0720	19424	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0720	20018	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0730	18369	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0730	19474	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0740	17447	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0740	18319	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0750	17467	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0800	20874	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0810	20583	Thu	Too weak to decode	MFSK-16/20Bd	(PY)

XPA2	25-9	0810	20824	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0820	19268	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0820	20533	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0830	18372	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0830	19218	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0840	17433	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0840	18322	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0850	17473	Thu	Too weak to decode	MFSK-16/20Bd	(PY)
XPA2	25-9	0900	19572	Thu	05230 00483 00242 ... 79653 87594 52054	MFSK-16/20Bd	(AB)
XPA2	25-9	0900	17432	Thu	00108 00149 37631 ... 55917 92620 74224	MFSK-16/20Bd	(PY)
XPA2	25-9	0910	17462	Thu	00108 00149 37631 ... 55917 92620 74224	MFSK-16/20Bd	(AB)
XPA2	25-9	0910	16251	Thu	00108 00149 37631 ... 55917 92620 74224	MFSK-16/20Bd	(PY)
XPA2	25-9	0910	17462	Thu	00108 00149 37631 ... 55917 92620 74224	MFSK-16/20Bd	(PY)
XPA2	25-9	0920	18054	Thu	05230 00483 00242 ... 79653 87594 52054	MFSK-16/20Bd	(AB)
XPA2	25-9	0920	15916	Thu	00108 00149 37631 ... 55917 92620 74224	MFSK-16/20Bd	(PY)
XPA2	25-9	0920	16211	Thu	00108 00149 37631 ... 55917 92620 74224	MFSK-16/20Bd	(PY)
XPA2	25-9	0930	14623	Thu	00108 00149 37631 ... 55917 92620 74224	MFSK-16/20Bd	(PY)
XPA2	25-9	0930	15866	Thu	00108 00149 37631 ... 55917 92620 74224	MFSK-16/20Bd	(PY)
XPA2	25-9	0940	17471	Thu	05230 00483 00242 ... 79653 87594 52054	MFSK-16/20Bd	(AB)
XPA2	25-9	0940	13946	Thu	00108 00149 37631 ... 55917 92620 74224	MFSK-16/20Bd	(PY)
XPA2	25-9	0940	14573	Thu	00108 00149 37631 ... 55917 92620 74224	MFSK-16/20Bd	(PY)
XPA2	25-9	0950	13896	Thu	00108 00149 37631 ... 55917 92620 74224	MFSK-16/20Bd	(PY)
XPA2	25-9	1000	19358	Thu	00109 00160 56036 ... 66866 6540 63031	MFSK-16/20Bd	(PY)
XPA2	25-9	1010	19064	Thu	00109 00160 56036 ... 66866 6540 63031	MFSK-16/20Bd	(PY)
XPA2	25-9	1010	19318	Thu	00109 00160 56036 ... 66866 6540 63031	MFSK-16/20Bd	(PY)
XPA2	25-9	1020	18041	Thu	00109 00160 56036 ... 66866 6540 63031	MFSK-16/20Bd	(PY)
XPA2	25-9	1020	19114	Thu	00109 00160 56036 ... 66866 6540 63031	MFSK-16/20Bd	(PY)
XPA2	25-9	1030	18241	Thu	00109 00160 56036 ... 66866 6540 63031	MFSK-16/20Bd	(AB)
XPA2	25-9	1030	17472	Thu	00109 00160 56036 ... 66866 6540 63031	MFSK-16/20Bd	(PY)
XPA2	25-9	1030	18241	Thu	00109 00160 56036 ... 66866 6540 63031	MFSK-16/20Bd	(PY)
XPA2	25-9	1040	16135	Thu	00109 00160 56036 ... 66866 6540 63031	MFSK-16/20Bd	(AB)
XPA2	25-9	1040	16135	Thu	00109 00160 56036 ... 66866 6540 63031	MFSK-16/20Bd	(PY)
XPA2	25-9	1040	17422	Thu	00109 00160 56036 ... 66866 6540 63031	MFSK-16/20Bd	(PY)
XPA2	25-9	1050	16085	Thu	00109 00160 56036 ... 66866 6540 63031	MFSK-16/20Bd	(PY)
XPA2	25-9	1100	16117	Thu	05426 00001 00000 36257	MFSK-16/20Bd	(AB)
XPA2	25-9	1100	18564	Thu	00110 00163 11419 ... 06863 51276 33321	MFSK-16/20Bd	(PY)
XPA2	25-9	1110	17433	Thu	00110 00163 11419 ... 06863 51276 33321	MFSK-16/20Bd	(PY)
XPA2	25-9	1110	18514	Thu	00110 00163 11419 ... 06863 51276 33321	MFSK-16/20Bd	(PY)
XPA2	25-9	1120	14917	Thu	05426 00001 00000 36257	MFSK-16/20Bd	(AB)
XPA2	25-9	1120	16047	Thu	00110 00163 11419 ... 06863 51276 33321	MFSK-16/20Bd	(PY)
XPA2	25-9	1120	17473	Thu	00110 00163 11419 ... 06863 51276 33321	MFSK-16/20Bd	(PY)
XPA2	25-9	1130	15843	Thu	00110 00163 11419 ... 06863 51276 33321	MFSK-16/20Bd	(PY)

XPA2	25-9	1130	16097	Thu	00110 00163 11419 ... 06863 51276 33321	MFSK-16/20Bd	(PY)
XPA2	25-9	1140	13517	Thu	05426 00001 00000 36257	MFSK-16/20Bd	(AB)
XPA2	25-9	1140	14484	Thu	00110 00163 11419 ... 06863 51276 33321	MFSK-16/20Bd	(PY)
XPA2	25-9	1140	15893	Thu	00110 00163 11419 ... 06863 51276 33321	MFSK-16/20Bd	(PY)
XPA2	25-9	1150	14394	Thu	00110 00163 11419 ... 06863 51276 33321	MFSK-16/20Bd	(PY)
XPA2	25-9	1200	18048	Thu	00111 00172 51702 ... 63959 95570 03177	MFSK-16/20Bd	(PY)
XPA2	25-9	1210	17473	Thu	00111 00172 51702 ... 63959 95570 03177	MFSK-16/20Bd	(PY)
XPA2	25-9	1210	18258	Thu	00111 00172 51702 ... 63959 95570 03177	MFSK-16/20Bd	(PY)
XPA2	25-9	1220	16079	Thu	00111 00172 51702 ... 63959 95570 03177	MFSK-16/20Bd	(PY)
XPA2	25-9	1220	17423	Thu	00111 00172 51702 ... 63959 95570 03177	MFSK-16/20Bd	(PY)
XPA2	25-9	1230	15858	Thu	00111 00172 51702 ... 63959 95570 03177	MFSK-16/20Bd	(PY)
XPA2	25-9	1230	16129	Thu	00111 00172 51702 ... 63959 95570 03177	MFSK-16/20Bd	(PY)
XPA2	25-9	1240	14581	Thu	00111 00172 51702 ... 63959 95570 03177	MFSK-16/20Bd	(PY)
XPA2	25-9	1240	15818	Thu	00111 00172 51702 ... 63959 95570 03177	MFSK-16/20Bd	(PY)
XPA2	25-9	1250	14531	Thu	00111 00172 51702 ... 63959 95570 03177	MFSK-16/20Bd	(PY)
XPA2	25-9	1300	17454	Thu	00112 00181 16734 ... 86702 11647 61103	MFSK-16/20Bd	(PY)
XPA2	25-9	1310	16041	Thu	00112 00181 16734 ... 86702 11647 61103	MFSK-16/20Bd	(PY)
XPA2	25-9	1310	17424	Thu	00112 00181 16734 ... 86702 11647 61103	MFSK-16/20Bd	(PY)
XPA2	25-9	1320	16151	Thu	00112 00181 16734 ... 86702 11647 61103	MFSK-16/20Bd	(AB)
XPA2	25-9	1320	15865	Thu	00112 00181 16734 ... 86702 11647 61103	MFSK-16/20Bd	(PY)
XPA2	25-9	1320	16151	Thu	00112 00181 16734 ... 86702 11647 61103	MFSK-16/20Bd	(PY)
XPA2	25-9	1330	14494	Thu	00112 00181 16734 ... 86702 11647 61103	MFSK-16/20Bd	(AB)
XPA2	25-9	1330	14494	Thu	00112 00181 16734 ... 86702 11647 61103	MFSK-16/20Bd	(PY)
XPA2	25-9	1330	15815	Thu	00112 00181 16734 ... 86702 11647 61103	MFSK-16/20Bd	(PY)
XPA2	25-9	1340	14444	Thu	00112 00181 16734 ... 86702 11647 61103	MFSK-16/20Bd	(AB)
XPA2	25-9	1340	13958	Thu	00112 00181 16734 ... 86702 11647 61103	MFSK-16/20Bd	(PY)
XPA2	25-9	1340	14444	Thu	00112 00181 16734 ... 86702 11647 61103	MFSK-16/20Bd	(PY)
XPA2	25-9	1350	13908	Thu	00112 00181 16734 ... 86702 11647 61103	MFSK-16/20Bd	(AB)
XPA2	25-9	1350	13908	Thu	00112 00181 16734 ... 86702 11647 61103	MFSK-16/20Bd	(PY)
XPA2	25-9	1400	16319	Thu	00113 00184 88789 ... 00707 38680 10127	MFSK-16/20Bd	(PY)
XPA2	25-9	1410	15874	Thu	00113 00184 88789 ... 00707 38680 10127	MFSK-16/20Bd	(PY)
XPA2	25-9	1410	16269	Thu	00113 00184 88789 ... 00707 38680 10127	MFSK-16/20Bd	(PY)
XPA2	25-9	1420	14844	Thu	00113 00184 88789 ... 00707 38680 10127	MFSK-16/20Bd	(PY)
XPA2	25-9	1420	15824	Thu	00113 00184 88789 ... 00707 38680 10127	MFSK-16/20Bd	(PY)
XPA2	25-9	1430	14368	Thu	00113 00184 88789 ... 00707 38680 10127	MFSK-16/20Bd	(PY)
XPA2	25-9	1430	14794	Thu	00113 00184 88789 ... 00707 38680 10127	MFSK-16/20Bd	(PY)
XPA2	25-9	1440	13921	Thu	00113 00184 88789 ... 00707 38680 10127	MFSK-16/20Bd	(PY)
XPA2	25-9	1440	14418	Thu	00113 00184 88789 ... 00707 38680 10127	MFSK-16/20Bd	(PY)
XPA2	25-9	1450	13971	Thu	00113 00184 88789 ... 00707 38680 10127	MFSK-16/20Bd	(PY)
XPA2	25-9	1500	16047	Thu	00114 00191 25657 ... 65583 55847 16041	MFSK-16/20Bd	(PY)
XPA2	25-9	1510	15856	Thu	00114 00191 25657 ... 65583 55847 16041	MFSK-16/20Bd	(PY)
XPA2	25-9	1510	16097	Thu	00114 00191 25657 ... 65583 55847 16041	MFSK-16/20Bd	(PY)

XPA2	25-9	1520	14896	Thu	00114 00191 25657 ... 65583 55847 16041	MFSK-16/20Bd	(PY)
XPA2	25-9	1520	15816	Thu	00114 00191 25657 ... 65583 55847 16041	MFSK-16/20Bd	(PY)
XPA2	25-9	1530	14379	Thu	00114 00191 25657 ... 65583 55847 16041	MFSK-16/20Bd	(PY)
XPA2	25-9	1530	14846	Thu	00114 00191 25657 ... 65583 55847 16041	MFSK-16/20Bd	(PY)
XPA2	25-9	1540	13883	Thu	00114 00191 25657 ... 65583 55847 16041	MFSK-16/20Bd	(PY)
XPA2	25-9	1540	14429	Thu	00114 00191 25657 ... 65583 55847 16041	MFSK-16/20Bd	(PY)
XPA2	25-9	1550	13933	Thu	00114 00191 25657 ... 65583 55847 16041	MFSK-16/20Bd	(PY)
XPA2	25-9	1700	17426	Thu	09597 00095 59298 ... 67126 09994 66735	MFSK-16/20Bd	(AB)
XPA2	25-9	1720	16274	Thu	09597 00095 59298 ... 67126 09994 66735	MFSK-16/20Bd	(AB)
XPA2	25-9	1740	14939	Thu	09597 00095 59298 ... 67126 09994 66735	MFSK-16/20Bd	(AB)
XPA2	26-9	0520	19591	Fri	00104 00224 22510 ... 52609 93388 04562	MFSK-16/20Bd	(PY)
XPA2	26-9	0520	20235	Fri	00104 00224 22510 ... 52609 93388 04562	MFSK-16/20Bd	(PY)
XPA2	26-9	0530	18386	Fri	00104 00224 22510 ... 52609 93388 04562	MFSK-16/20Bd	(PY)
XPA2	26-9	0530	19541	Fri	00104 00224 22510 ... 52609 93388 04562	MFSK-16/20Bd	(PY)
XPA2	26-9	0540	17444	Fri	00104 00224 22510 ... 52609 93388 04562	MFSK-16/20Bd	(AB)
XPA2	26-9	0540	17444	Fri	00104 00224 22510 ... 52609 93388 04562	MFSK-16/20Bd	(PY)
XPA2	26-9	0540	18336	Fri	00104 00224 22510 ... 52609 93388 04562	MFSK-16/20Bd	(PY)
XPA2	26-9	0550	17474	Fri	00104 00224 22510 ... 52609 93388 04562	MFSK-16/20Bd	(PY)
XPA2	26-9	0600	20961	Fri	00205 00228 38629 ... 00405 33871 36174	MFSK-16/20Bd	(PY)
XPA2	26-9	0610	20384	Fri	00205 00228 38629 ... 00405 33871 36174	MFSK-16/20Bd	(PY)
XPA2	26-9	0610	20911	Fri	00205 00228 38629 ... 00405 33871 36174	MFSK-16/20Bd	(PY)
XPA2	26-9	0620	19293	Fri	00205 00228 38629 ... 00405 33871 36174	MFSK-16/20Bd	(PY)
XPA2	26-9	0620	20334	Fri	00205 00228 38629 ... 00405 33871 36174	MFSK-16/20Bd	(PY)
XPA2	26-9	0630	19253	Fri	00205 00228 38629 ... 00405 33871 36174	MFSK-16/20Bd	(PY)
XPA2	26-9	0640	17461	Fri	00205 00228 38629 ... 00405 33871 36174. Spur on 18616 kHz	MFSK-16/20Bd	(AB)
XPA2	26-9	0640	18616	Fri	00205 00228 38629 ... 00405 33871 36174	MFSK-16/20Bd	(PY)
XPA2	26-9	0640	18666	Fri	00205 00228 38629 ... 00405 33871 36174	MFSK-16/20Bd	(PY)
XPA2	26-9	0650	17421	Fri	00205 00228 38629 ... 00405 33871 36174	MFSK-16/20Bd	(PY)
XPA2	26-9	0650	17461	Fri	00205 00228 38629 ... 00405 33871 36174	MFSK-16/20Bd	(PY)
XPA2	26-9	0700	20888	Fri	00206 00238 77513 ... 91494 78178 15611	MFSK-16/20Bd	(PY)
XPA2	26-9	0710	20058	Fri	00206 00238 77513 ... 91494 78178 15611	MFSK-16/20Bd	(PY)
XPA2	26-9	0710	20838	Fri	00206 00238 77513 ... 91494 78178 15611	MFSK-16/20Bd	(PY)
XPA2	26-9	0720	19424	Fri	00206 00238 77513 ... 91494 78178 15611	MFSK-16/20Bd	(PY)
XPA2	26-9	0720	20018	Fri	00206 00238 77513 ... 91494 78178 15611	MFSK-16/20Bd	(PY)
XPA2	26-9	0730	18369	Fri	00206 00238 77513 ... 91494 78178 15611	MFSK-16/20Bd	(PY)
XPA2	26-9	0730	19474	Fri	00206 00238 77513 ... 91494 78178 15611	MFSK-16/20Bd	(PY)
XPA2	26-9	0740	17447	Fri	00206 00238 77513 ... 91494 78178 15611	MFSK-16/20Bd	(PY)
XPA2	26-9	0740	18319	Fri	00206 00238 77513 ... 91494 78178 15611	MFSK-16/20Bd	(PY)
XPA2	26-9	0750	17467	Fri	00206 00238 77513 ... 91494 78178 15611	MFSK-16/20Bd	(PY)
XPA2	26-9	0800	20874	Fri	00207 00240 52874 ... 07881 48217 23112	MFSK-16/20Bd	(PY)
XPA2	26-9	0810	20583	Fri	00207 00240 52874 ... 07881 48217 23112	MFSK-16/20Bd	(AB)
XPA2	26-9	0810	20583	Fri	00207 00240 52874 ... 07881 48217 23112	MFSK-16/20Bd	(PY)

XPA2	26-9	0810	20824	Fri	00207 00240 52874 ... 07881 48217 23112	MFSK-16/20Bd	(PY)
XPA2	26-9	0820	19268	Fri	00207 00240 52874 ... 07881 48217 23112	MFSK-16/20Bd	(AB)
XPA2	26-9	0820	19268	Fri	00207 00240 52874 ... 07881 48217 23112	MFSK-16/20Bd	(PY)
XPA2	26-9	0820	20533	Fri	00207 00240 52874 ... 07881 48217 23112	MFSK-16/20Bd	(PY)
XPA2	26-9	0830	18372	Fri	00207 00240 52874 ... 07881 48217 23112	MFSK-16/20Bd	(AB)
XPA2	26-9	0830	18372	Fri	00207 00240 52874 ... 07881 48217 23112	MFSK-16/20Bd	(PY)
XPA2	26-9	0830	19218	Fri	00207 00240 52874 ... 07881 48217 23112	MFSK-16/20Bd	(PY)
XPA2	26-9	0840	17433	Fri	00207 00240 52874 ... 07881 48217 23112	MFSK-16/20Bd	(AB)
XPA2	26-9	0840	17433	Fri	00207 00240 52874 ... 07881 48217 23112	MFSK-16/20Bd	(PY)
XPA2	26-9	0840	18322	Fri	00207 00240 52874 ... 07881 48217 23112	MFSK-16/20Bd	(PY)
XPA2	26-9	0850	17473	Fri	00207 00240 52874 ... 07881 48217 23112	MFSK-16/20Bd	(AB)
XPA2	26-9	0850	17473	Fri	00207 00240 52874 ... 07881 48217 23112	MFSK-16/20Bd	(PY)
XPA2	26-9	0900	17432	Fri	00208 00253 26072 ... 30067 43088 66357	MFSK-16/20Bd	(AB)
XPA2	26-9	0900	17432	Fri	00208 00253 26072 ... 30067 43088 66357	MFSK-16/20Bd	(PY)
XPA2	26-9	0910	17462	Fri	00208 00253 26072 ... 30067 43088 66357	MFSK-16/20Bd	(AB)
XPA2	26-9	0910	16251	Fri	00208 00253 26072 ... 30067 43088 66357	MFSK-16/20Bd	(PY)
XPA2	26-9	0910	17462	Fri	00208 00253 26072 ... 30067 43088 66357	MFSK-16/20Bd	(PY)
XPA2	26-9	0920	16211	Fri	00208 00253 26072 ... 30067 43088 66357	MFSK-16/20Bd	(AB)
XPA2	26-9	0920	15916	Fri	00208 00253 26072 ... 30067 43088 66357	MFSK-16/20Bd	(PY)
XPA2	26-9	0920	16211	Fri	00208 00253 26072 ... 30067 43088 66357	MFSK-16/20Bd	(PY)
XPA2	26-9	0930	15866	Fri	00208 00253 26072 ... 30067 43088 66357. Spur on 14623 kHz	MFSK-16/20Bd	(AB)
XPA2	26-9	0930	14623	Fri	00208 00253 26072 ... 30067 43088 66357	MFSK-16/20Bd	(PY)
XPA2	26-9	0930	15866	Fri	00208 00253 26072 ... 30067 43088 66357	MFSK-16/20Bd	(PY)
XPA2	26-9	0940	14573	Fri	00208 00253 26072 ... 30067 43088 66357	MFSK-16/20Bd	(AB)
XPA2	26-9	0940	13946	Fri	00208 00253 26072 ... 30067 43088 66357	MFSK-16/20Bd	(PY)
XPA2	26-9	0940	14573	Fri	00208 00253 26072 ... 30067 43088 66357	MFSK-16/20Bd	(PY)
XPA2	26-9	0950	13896	Fri	00208 00253 26072 ... 30067 43088 66357	MFSK-16/20Bd	(AB)
XPA2	26-9	0950	13896	Fri	00208 00253 26072 ... 30067 43088 66357	MFSK-16/20Bd	(PY)
XPA2	26-9	1000	19358	Fri	00209 00254 99996 ... 35081 45955 21455	MFSK-16/20Bd	(PY)
XPA2	26-9	1010	19064	Fri	00209 00254 99996 ... 35081 45955 21455	MFSK-16/20Bd	(PY)
XPA2	26-9	1010	19318	Fri	00209 00254 99996 ... 35081 45955 21455	MFSK-16/20Bd	(PY)
XPA2	26-9	1020	18041	Fri	00209 00254 99996 ... 35081 45955 21455	MFSK-16/20Bd	(PY)
XPA2	26-9	1020	19114	Fri	00209 00254 99996 ... 35081 45955 21455	MFSK-16/20Bd	(PY)
XPA2	26-9	1030	18241	Fri	00209 00254 99996 ... 35081 45955 21455	MFSK-16/20Bd	(AB)
XPA2	26-9	1030	17472	Fri	00209 00254 99996 ... 35081 45955 21455	MFSK-16/20Bd	(PY)
XPA2	26-9	1030	18241	Fri	00209 00254 99996 ... 35081 45955 21455	MFSK-16/20Bd	(PY)
XPA2	26-9	1040	16135	Fri	00209 00254 99996 ... 35081 45955 21455	MFSK-16/20Bd	(AB)
XPA2	26-9	1040	16135	Fri	00209 00254 99996 ... 35081 45955 21455	MFSK-16/20Bd	(PY)
XPA2	26-9	1040	17422	Fri	00209 00254 99996 ... 35081 45955 21455	MFSK-16/20Bd	(PY)
XPA2	26-9	1050	16085	Fri	00209 00254 99996 ... 35081 45955 21455	MFSK-16/20Bd	(AB)
XPA2	26-9	1050	16085	Fri	00209 00254 99996 ... 35081 45955 21455	MFSK-16/20Bd	(PY)
XPA2	26-9	1100	13431	Fri	08878 00439 77443 ... 09105 25762 11645	MFSK-16/20Bd	(AB)

XPA2	26-9	1100	18564	Fri	00210 00264 85234 ... 63113 90969 57067	MFSK-16/20Bd	(PY)
XPA2	26-9	1110	17433	Fri	00210 00264 85234 ... 63113 90969 57067	MFSK-16/20Bd	(PY)
XPA2	26-9	1110	18514	Fri	00210 00264 85234 ... 63113 90969 57067	MFSK-16/20Bd	(PY)
XPA2	26-9	1120	12131	Fri	08878 00439 77443 ... 09105 25762 11645	MFSK-16/20Bd	(AB)
XPA2	26-9	1120	17473	Fri	00210 00264 85234 ... 63113 90969 57067	MFSK-16/20Bd	(AB)
XPA2	26-9	1120	16047	Fri	00210 00264 85234 ... 63113 90969 57067	MFSK-16/20Bd	(PY)
XPA2	26-9	1120	17473	Fri	00210 00264 85234 ... 63113 90969 57067	MFSK-16/20Bd	(PY)
XPA2	26-9	1130	15843	Fri	00210 00264 85234 ... 63113 90969 57067	MFSK-16/20Bd	(AB)
XPA2	26-9	1130	15843	Fri	00210 00264 85234 ... 63113 90969 57067	MFSK-16/20Bd	(PY)
XPA2	26-9	1130	16097	Fri	00210 00264 85234 ... 63113 90969 57067	MFSK-16/20Bd	(PY)
XPA2	26-9	1140	11431	Fri	08878 00439 77443 ... 09105 25762 11645	MFSK-16/20Bd	(AB)
XPA2	26-9	1140	14484	Fri	00210 00264 85234 ... 63113 90969 57067	MFSK-16/20Bd	(AB)
XPA2	26-9	1140	14484	Fri	00210 00264 85234 ... 63113 90969 57067	MFSK-16/20Bd	(PY)
XPA2	26-9	1140	15893	Fri	00210 00264 85234 ... 63113 90969 57067	MFSK-16/20Bd	(PY)
XPA2	26-9	1200	18048	Fri	00211 00269 12980 ... 76478 04883 15444	MFSK-16/20Bd	(AB)
XPA2	26-9	1200	17423	Fri	00211 00269 12980 ... 76478 04883 15444	MFSK-16/20Bd	(PY)
XPA2	26-9	1200	18048	Fri	00211 00269 12980 ... 76478 04883 15444	MFSK-16/20Bd	(PY)
XPA2	26-9	1210	17473	Fri	00211 00269 12980 ... 76478 04883 15444	MFSK-16/20Bd	(AB)
XPA2	26-9	1210	16129	Fri	00211 00269 12980 ... 76478 04883 15444	MFSK-16/20Bd	(PY)
XPA2	26-9	1210	17473	Fri	00211 00269 12980 ... 76478 04883 15444	MFSK-16/20Bd	(PY)
XPA2	26-9	1220	16079	Fri	00211 00269 12980 ... 76478 04883 15444	MFSK-16/20Bd	(AB)
XPA2	26-9	1220	15818	Fri	00211 00269 12980 ... 76478 04883 15444	MFSK-16/20Bd	(PY)
XPA2	26-9	1220	16079	Fri	00211 00269 12980 ... 76478 04883 15444	MFSK-16/20Bd	(PY)
XPA2	26-9	1230	15858	Fri	00211 00269 12980 ... 76478 04883 15444	MFSK-16/20Bd	(AB)
XPA2	26-9	1240	14581	Fri	00211 00269 12980 ... 76478 04883 15444	MFSK-16/20Bd	(AB)
XPA2	26-9	1300	17454	Fri	00212 00280 25033 ... 62834 00413 07452	MFSK-16/20Bd	(AB)
XPA2	26-9	1300	16151	Fri	00212 00280 25033 ... 62834 00413 07452	MFSK-16/20Bd	(PY)
XPA2	26-9	1300	17454	Fri	00212 00280 25033 ... 62834 00413 07452	MFSK-16/20Bd	(PY)
XPA2	26-9	1310	16041	Fri	00212 00280 25033 ... 62834 00413 07452	MFSK-16/20Bd	(AB)
XPA2	26-9	1310	15815	Fri	00212 00280 25033 ... 62834 00413 07452	MFSK-16/20Bd	(PY)
XPA2	26-9	1310	16041	Fri	00212 00280 25033 ... 62834 00413 07452	MFSK-16/20Bd	(PY)
XPA2	26-9	1320	15865	Fri	00212 00280 25033 ... 62834 00413 07452	MFSK-16/20Bd	(AB)
XPA2	26-9	1320	14444	Fri	00212 00280 25033 ... 62834 00413 07452	MFSK-16/20Bd	(PY)
XPA2	26-9	1320	15865	Fri	00212 00280 25033 ... 62834 00413 07452	MFSK-16/20Bd	(PY)
XPA2	26-9	1400	16319	Fri	00213 00283 51377 ... 12892 13397 04536	MFSK-16/20Bd	(AB)
XPA2	26-9	1400	15824	Fri	00213 00283 51377 ... 12892 13397 04536	MFSK-16/20Bd	(PY)
XPA2	26-9	1400	16319	Fri	00213 00283 51377 ... 12892 13397 04536	MFSK-16/20Bd	(PY)
XPA2	26-9	1410	15874	Fri	00213 00283 51377 ... 12892 13397 04536	MFSK-16/20Bd	(AB)
XPA2	26-9	1410	14794	Fri	00213 00283 51377 ... 12892 13397 04536	MFSK-16/20Bd	(PY)
XPA2	26-9	1410	15874	Fri	00213 00283 51377 ... 12892 13397 04536	MFSK-16/20Bd	(PY)
XPA2	26-9	1420	14844	Fri	00213 00283 51377 ... 12892 13397 04536	MFSK-16/20Bd	(AB)
XPA2	26-9	1420	14418	Fri	00213 00283 51377 ... 12892 13397 04536	MFSK-16/20Bd	(PY)

XPA2	26-9	1420	14844	Fri	00213 00283 51377 ... 12892 13397 04536	MFSK-16/20Bd	(PY)
XPA2	26-9	1500	16047	Fri	00214 00292 18693 ... 21851 68568 46034	MFSK-16/20Bd	(AB)
XPA2	26-9	1500	15816	Fri	00214 00292 18693 ... 21851 68568 46034	MFSK-16/20Bd	(PY)
XPA2	26-9	1500	16047	Fri	00214 00292 18693 ... 21851 68568 46034	MFSK-16/20Bd	(PY)
XPA2	26-9	1510	15856	Fri	00214 00292 18693 ... 21851 68568 46034	MFSK-16/20Bd	(AB)
XPA2	26-9	1510	14846	Fri	00214 00292 18693 ... 21851 68568 46034	MFSK-16/20Bd	(PY)
XPA2	26-9	1510	15856	Fri	00214 00292 18693 ... 21851 68568 46034	MFSK-16/20Bd	(PY)
XPA2	26-9	1520	14896	Fri	00214 00292 18693 ... 21851 68568 46034	MFSK-16/20Bd	(AB)
XPA2	26-9	1520	14429	Fri	00214 00292 18693 ... 21851 68568 46034	MFSK-16/20Bd	(PY)
XPA2	26-9	1520	14896	Fri	00214 00292 18693 ... 21851 68568 46034	MFSK-16/20Bd	(PY)
XPA2	26-9	1800	16351	Fri	09159 00310 14458 ... 88447 34735 60344	MFSK-16/20Bd	(AB)
XPA2	26-9	1820	14851	Fri	09159 00310 14458 ... 88447 34735 60344	MFSK-16/20Bd	(AB)
XPA2	26-9	1840	13951	Fri	09159 00310 14458 ... 88447 34735 60344	MFSK-16/20Bd	(AB)
XPA2	27-9	0900	19572	Sat	05230 00483 00242 ... 79653 87594 52054	MFSK-16/20Bd	(AB)
XPA2	27-9	0920	18054	Sat	05230 00483 00242 ... 79653 87594 52054	MFSK-16/20Bd	(AB)
XPA2	27-9	0940	17471	Sat	05230 00483 00242 ... 79653 87594 52054	MFSK-16/20Bd	(AB)
XPA2	27-9	1500	14373	Sat	00787 00159 70844 ... 85321 82639 06707	MFSK-16/20Bd	(AB)
XPA2	27-9	1520	13373	Sat	00787 00159 70844 ... 85321 82639 06707	MFSK-16/20Bd	(AB)
XPA2	27-9	1540	11573	Sat	00787 00159 70844 ... 85321 82639 06707	MFSK-16/20Bd	(AB)
XPA2	29-9	0700	12152	Mon	00423 00565 15855 ... 77000 28884 54550	MFSK-16/20Bd	(AB/EW)
XPA2	29-9	0720	13552	Mon	00423 00565 15855 ... 77000 28884 54550	MFSK-16/20Bd	(AB)
XPA2	29-9	0740	13952	Mon	00423 00565 15855 ... 77000 28884 54550	MFSK-16/20Bd	(AB)
XPA2	29-9	0910	19536	Mon	01612 00576 35572 ... 62669 21540 50073	MFSK-16/20Bd	(AB)
XPA2	29-9	0930	18467	Mon	01612 00576 35572 ... 62669 21540 50073	MFSK-16/20Bd	(AB)
XPA2	29-9	0950	16317	Mon	01612 00576 35572 ... 62669 21540 50073	MFSK-16/20Bd	(AB)
XPA2	29-9	1500	14373	Mon	02111 00001 00000 32253	MFSK-16/20Bd	(AB)
XPA2	29-9	1520	13373	Mon	02111 00001 00000 32253	MFSK-16/20Bd	(AB)
XPA2	29-9	1540	11573	Mon	02111 00001 00000 32253	MFSK-16/20Bd	(AB)
XPA2	30-9	1100	13431	Tue	09825 00560 71983 ... 01315 13838 14262	MFSK-16/20Bd	(AB)
XPA2	30-9	1120	12131	Tue	09825 00560 71983 ... 01315 13838 14262	MFSK-16/20Bd	(AB)
XPA2	30-9	1140	11431	Tue	09825 00560 71983 ... 01315 13838 14262	MFSK-16/20Bd	(AB)
XPA2	30-9	1700	17426	Tue	05791 00001 00000 35266	MFSK-16/20Bd	(AB)
XPA2	30-9	1720	16274	Tue	05791 00001 00000 35266	MFSK-16/20Bd	(AB)
XPA2	30-9	1740	14939	Tue	05791 00001 00000 35266	MFSK-16/20Bd	(AB)
XPB1	1-9	0500	19668	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	1-9	0510	19568	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	1-9	0520	18268	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	1-9	0530	17468	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	1-9	0540	16268	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	1-9	0550	15868	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-9	0500	19668	Tue	Russian intel.	MFSK-16	(AB)
XPB1	2-9	0510	19568	Tue	Russian intel.	MFSK-16	(AB)

XPB1	2-9	0520	18268	Tue	Russian intel.	MFSK-16	(AB)
XPB1	2-9	0530	17468	Tue	Russian intel.	MFSK-16	(AB)
XPB1	2-9	0540	16268	Tue	Russian intel.	MFSK-16	(AB)
XPB1	2-9	0550	15868	Tue	Russian intel.	MFSK-16	(AB)
XPB1	2-9	1300	20017	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-9	1310	19317	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-9	1320	18037	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-9	1330	17417	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-9	1340	16217	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-9	1350	15817	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	5-9	1300	20017	Fri	Russian intel.	MFSK-16	(AB)
XPB1	5-9	1310	19317	Fri	Russian intel.	MFSK-16	(AB)
XPB1	5-9	1320	18037	Fri	Russian intel.	MFSK-16	(AB)
XPB1	5-9	1330	17417	Fri	Russian intel.	MFSK-16	(AB)
XPB1	5-9	1340	16217	Fri	Russian intel.	MFSK-16	(AB)
XPB1	5-9	1350	15817	Fri	Russian intel.	MFSK-16	(AB)
XPB1	8-9	0500	19668	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	8-9	0510	19568	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	8-9	0520	18268	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	8-9	0530	17468	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	8-9	0540	16268	Mon	Russian intel.	MFSK-16	(AB)
XPB1	8-9	0550	15868	Mon	Russian intel.	MFSK-16	(AB)
XPB1	9-9	0500	19668	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-9	0510	19568	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-9	0520	18268	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-9	0530	17468	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-9	0540	16268	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-9	0550	15868	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-9	1300	20017	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-9	1310	19317	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-9	1320	18037	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-9	1330	17417	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-9	1340	16217	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-9	1350	15817	Tue	Russian intel.	MFSK-16	(AB)
XPB1	12-9	1300	20017	Fri	Russian intel.	MFSK-16	(AB)
XPB1	12-9	1310	19317	Fri	Russian intel.	MFSK-16	(AB)
XPB1	12-9	1320	18037	Fri	Russian intel.	MFSK-16	(AB)
XPB1	12-9	1330	17417	Fri	Russian intel.	MFSK-16	(AB)
XPB1	12-9	1340	16217	Fri	Russian intel.	MFSK-16	(AB)
XPB1	12-9	1350	15817	Fri	Russian intel.	MFSK-16	(AB)
XPB1	15-9	0500	19668	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	15-9	0510	19568	Mon	Russian intel.	MFSK-16	(AB-POL)

XPB1	15-9	0520	18268	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	15-9	0530	17468	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	15-9	0540	16268	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	15-9	0550	15868	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	16-9	0500	19668	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-9	0510	19568	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-9	0520	18268	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-9	0530	17468	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-9	0540	16268	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-9	0550	15868	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-9	1300	20017	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-9	1310	19317	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-9	1320	18037	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-9	1330	17417	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-9	1340	16217	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-9	1350	15817	Tue	Russian intel.	MFSK-16	(AB)
XPB1	19-9	1300	20017	Fri	Russian intel.	MFSK-16	(AB)
XPB1	19-9	1310	19317	Fri	Russian intel.	MFSK-16	(AB)
XPB1	19-9	1320	18037	Fri	Russian intel.	MFSK-16	(AB)
XPB1	19-9	1330	17417	Fri	Russian intel.	MFSK-16	(AB)
XPB1	19-9	1340	16217	Fri	Russian intel.	MFSK-16	(AB)
XPB1	19-9	1350	15817	Fri	Russian intel.	MFSK-16	(AB)
XPB1	22-9	0500	19668	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	22-9	0510	19568	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	22-9	0520	18268	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	22-9	0530	17468	Mon	Russian intel.	MFSK-16	(AB)
XPB1	22-9	0540	16268	Mon	Russian intel.	MFSK-16	(AB)
XPB1	22-9	0550	15868	Mon	Russian intel.	MFSK-16	(AB)
XPB1	23-9	0500	19668	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-9	0510	19568	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-9	0520	18268	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-9	0530	17468	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-9	0540	16268	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-9	0550	15868	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-9	1300	20017	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-9	1310	19317	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-9	1320	18037	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-9	1330	17417	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-9	1340	16217	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-9	1350	15817	Tue	Russian intel.	MFSK-16	(AB)
XPB1	26-9	0830	8148	Fri	Russian intel. Null message	MFSK-16	(PY)
XPB1	26-9	0840	9283	Fri	Russian intel. Null message	MFSK-16	(PY)

XPB1	26-9	0850	10427	Fri	Russian intel. Null message	MFSK-16	(PY)
XPB1	26-9	0900	11574	Fri	Russian intel. Null message	MFSK-16	(PY)
XPB1	26-9	0910	12153	Fri	Russian intel. Null message	MFSK-16	(PY)
XPB1	26-9	0920	13439	Fri	Russian intel. Null message	MFSK-16	(PY)
XPB1	26-9	0930	8148	Fri	Russian intel. Null message	MFSK-16	(PY)
XPB1	26-9	0940	9283	Fri	Russian intel. Null message	MFSK-16	(PY)
XPB1	26-9	0950	10427	Fri	Russian intel. Null message	MFSK-16	(PY)
XPB1	26-9	1000	11574	Fri	Russian intel. Null message	MFSK-16	(PY)
XPB1	26-9	1010	12153	Fri	Russian intel. Null message	MFSK-16	(PY)
XPB1	26-9	1020	13439	Fri	Russian intel. Null message	MFSK-16	(PY)
XPB1	26-9	1030	8148	Fri	Russian intel. Null message	MFSK-16	(PY)
XPB1	26-9	1040	9283	Fri	Russian intel. Null message	MFSK-16	(PY)
XPB1	26-9	1050	10427	Fri	Russian intel. Null message	MFSK-16	(PY)
XPB1	26-9	1100	11574	Fri	Russian intel. Null message	MFSK-16	(PY)
XPB1	26-9	1110	12153	Fri	Russian intel. Null message	MFSK-16	(PY)
XPB1	26-9	1120	13439	Fri	Russian intel. Null message	MFSK-16	(PY)
XPB1	26-9	1300	20017	Fri	Russian intel.	MFSK-16	(AB)
XPB1	26-9	1310	19317	Fri	Russian intel.	MFSK-16	(AB)
XPB1	26-9	1320	18037	Fri	Russian intel.	MFSK-16	(AB)
XPB1	26-9	1330	17417	Fri	Russian intel.	MFSK-16	(AB)
XPB1	26-9	1340	16217	Fri	Russian intel.	MFSK-16	(AB)
XPB1	26-9	1350	15817	Fri	Russian intel.	MFSK-16	(AB)
XPB1	29-9	0500	19668	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	29-9	0510	19568	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	29-9	0520	18268	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	29-9	0530	17468	Mon	Russian intel.	MFSK-16	(AB)
XPB1	29-9	0540	16268	Mon	Russian intel.	MFSK-16	(AB)
XPB1	29-9	0550	15868	Mon	Russian intel.	MFSK-16	(AB)
XPB1	30-9	0500	19668	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-9	0510	19568	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-9	0520	18268	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-9	0530	17468	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-9	0540	16268	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-9	0550	15868	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-9	1300	20017	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-9	1310	19317	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-9	1320	18037	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-9	1330	17417	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-9	1340	16217	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-9	1350	15817	Tue	Russian intel.	MFSK-16	(AB)

APPENDIX

List of active stations

Prefixes

E	English language	Q	4+4 QPSK mode
F	FSK (Frequency Shift Keying) modes	S	Slavic languages
G	German language	SK	Various modes used by Cuba, incl. (B)PSK, WinDRM
HM	Hybrid modes	UM(C)	Unid Morse station (Chinese)
M(C)	Morse code (Chinese)	V	Voice broadcasts in other languages
P	PSK modes. QPSK (Quadrature Phase Shift Keying) and BPSK (Binary Phase-Shift keying) modes	VC	Voice Chinese
		XP	MFSK (polytone) modes

Notes :

There is no solid proof that the mentioned operators are correct.

Russian G06, V06 and other variants are not in the list but are occasionally used for exercises

Code	Description	Country	Counterpart	Operator
E06	3-fig id, OM/EE 00000	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E06a	3-fig id, 2 group commencing with 11111	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E06b	3-fig id with 5FG group in call, 2 msgsg	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E07	3-fig id, OM/EE 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
E07a	Null msg format. Nnn nnn nnn 000 repeated 20 mins later	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
E11	nnn Oblique 00 Out	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
E11a	E11 with message	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
E25	Arabic music, 3FGs call, 4FGs, 9450 kHz	EGY	E25, E25a, E25b	GID
E25a	E25 but 3FG 3FG 2FG 2FG 2FG call	EGY	E25, E25a, E25b	GID
E25b	Arab message; callup in English	EGY	E25, E25a, E25b	GID
F01	FSK/ITA2 200Bd/500Hz	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F02	MFSK-4 150Bd/4000Hz (12kHz BW)	RUS		Unid Russian net.
F03i	FSK-2 100Bd/800Hz/cf +1200Hz/488-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F03j	FSK-4 100Bd/400Hz/cf +1200Hz/448-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F03l	FSK-2 100Bd/200Hz/cf +700Hz/448-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F06	FSK 200Bd/1000Hz ACF=288 sending compressed digits	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F06a	FSK 200Bd/1000Hz ACF=288 sending uncompressed ASCII files	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F07	5x16-tone MFSK, 10Bd, 20Hz + BPSK, 250Bd bursts	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
HM01	Consists of alternating WinDRM data & V02a repeating sequences.	CUB		DGI
M01	2 tone hand-keyed, ends '000'	RUS		Russian Navy
M01a	End of the month transmission	RUS		Russian Navy
M12	5FG, 3 or 4FG DK. Ends with 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
M12a	3FG DK. 2 Messages. Ends with 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
M14	Ends 00000 or 5 long dashes	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14a	Dual msg variant	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14b	Rare, added 2nd msg hand keyed	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14c	Rare, dual msg, consecutive id's	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14d	3FG id with 5FG group in call	RUS	E06, S06, M14, F01, F06, F06a	
M21	14 fig msgsg. Markers and tracking data	RUS	M21, M41	Russian Air Defense
M22	4XZ	ISR		Israeli Navy
M23	Letters and/or figures strings in various formats	F		
M41	M21 variant using callsigns and WZD and ABV	RUS	M21, M41	Russian Air Defense
M42	Various modes	RUS		Russian Gov/Intel.
M42b	FSK 50/500 (=50= separator)	RUS		Russian Gov/Intel.
M51a	FAV22 transmissions	F		French army
M51b	Non-stop 5-character groups	F		French army
M76	ABCD de EFGH QTC xx xx = 5FG 3607X RRRRR 201XX NNN			

M89	Markers like V YHXD YHXD YHXD DE SAQC SAQC and 4FG messages. Cut numbers	CHN		Chinese military
M89v	M89 voice transmissions	CHN		Chinese military
M95	Markers and 4FG messages. Cut numbers. Morse counterpart of V26 and Q26	CHN	M95, Q26, V26	Chinese military
MC03	Tracking data. Various formats	CHN	VC01	Chinese Air Defense
MVC03	Morse counterpart of VC03	CHN	VC03	Chinese Air Defense
MX	Single letter beacons/markers	RUS		Russian military
P03e	QPSK 100Bd/488-bit period	POL	E11, E11a, S11a, F03, P03	
P03f	QPSK 200Bd/496-bit period	POL	E11, E11a, S11a, F03, P03	
P03g	BPSK 50Bd/464-bit period	POL	E11, E11a, S11a, F03, P03	
P03h	BPSK 100Bd/512-bit period	POL	E11, E11a, S11a, F03, P03	
P03i	BPSK 100Bd/512-bit period	POL	E11, E11a, S11a, F03, P03	
P03j	QPSK 100Bd/504-bit period	POL	E11, E11a, S11a, F03, P03	
P03k	BPSK 100Bd/480-bit period	POL	E11, E11a, S11a, F03, P03	
P03l	QPSK 100Bd/464-bit period	POL	E11, E11a, S11a, F03, P03	
P07	Russian intel. 8-tone OFDM, QSPK, 62.5Bd, 125Hz + BPSK, 250Bd bursts	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
Q26	Digital counterpart of V26 and M95. Mode: 4+4 QPSK 75/3000 LSB and 4+4 QPSK 75/1000 LSB	CHN	M95, Q26, V26	Chinese military
S06	3-fig id, 00000 OM/RR	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06b	3-fig id, two group (commencing with 11111, stutter)	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06c	Repeating single group	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06e	3-fig id, two messages	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06f	3 group msg, ends 00000	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06s	YL + slow zero's ending	UKR	E06, S06, M14, F01, F06, F06a	SZRU
S11a	nnn Cherta 00 or group count + message. Konets	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
S28	Buzzer	RUS		Russian military
S30	Pip	RUS		Russian military
S32	Squeaky Wheel	RUS		Russian military
UM03	X2M (probably Chinese). Mode: CW			
UM04	PROMRCh. Daily transmissions. Format: VVVVV PROMRCh = 27 09 = 1000 0600 0640 0780 1160 ... ABV repeat message = AR. Origin: Bulgaria	BUL		Bulgarian military
UM05	French morse training station	F		
UM06	Various formats morse strings	F		
UM10	10-minutes net. Callsigns sent for 10 minutes 2x per hour on 2 parallel frequencies. Seldom messages are sent.			
V07	Spanish Man 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
V07F	French version of E07	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
V13	New Star Broadcasting	TWN	V13, V13a, V13b	Military Intelligence
V13a	New Star Broadcasting (AM, 5-7 msgs to 5-7 units)	TWN	V13, V13a, V13b	Military Intelligence
V13b	New Star Broadcasting (AM/USB hybrid, intro 2x, 4 msgs to 4 units)	TWN	V13, V13a, V13b	Military Intelligence
V26	Voice counterpart of M95 and Q26	CHN	M95, Q26, V26	Chinese military
VC01	Chinese Robot (tracking data)	CHN	MC03	Chinese Air Defense
VC02	Chinese voice morse stations	CHN		Chinese Air Defense
VC03	3FG callup and 4FG messages			
VC05	Chinese time stamp station. Operator calling a 4-figure callsign for four minutes. At the end the actual Beijing time is mentioned.	CHN		
VR01	Russian station passing coded messages. Active sinds at least March 2014. Seldom heard	RUS		
X06	MFA Moscow. Selcal system for diplomatic missions	RUS		Various
XPA1	MFSK-20/10Bd transmissions	RUS		Russian intelligence
XPA2	MFSK-16/20Bd transmissions	RUS		Russian intelligence
XPB1	MFSK-16 transmissions	RUS		Russian intel
XSL	QPSK 1500Bd. Slot Machine (Japanese Navy Telemetry)	J		Japanese navy

Morse characters

A	. -	1	. - - - -	Full stop (period)	[.]	. - . - . -
B	- . . .	2	. . - - -	Comma	[,]	- - . . - -
C	- . - .	3	. . . - -	Colon	[:]	- - - . . .
D	- . .	4	 -	Question mark	[?]	. . - - . .
E	.	5		Exclamation mark	[!]	- . - . - -
F	. . - .	6	-	Apostrophe	[']	. - - - . .
G	- - .	7	- - . . .	Dash or Hyphen	[-]	- -
H		8	- - - . .	Slash	[/]	- . . - .
I	. .	9	- - - - .	Left-hand bracket	[(]	- . - - .
J	. - - -	0	- - - - -	Right-hand bracket	[)]	- . - - . -
K	- . -			Quotation marks	[" "]	. - . . - .
L	. - . .			Equals sign	[BT =]	- . . . -
M	- -	Accented letters		Understood		. . . - .
N	- .	Ä	. - . -	Plus sign	[+]	. - . - .
O	- - -	Á	. - - - -	Invitation to transmit		- . -
P	. - . .	CH	- - - -	Wait	[AS]	. - . . .
Q	- - . -	É	. . - . .	End of Transmission	[SK, VA]	. . . - . -
R	. - .	Ö	- - - .	End of message	[AR]	. - . - .
S	. . .	Ü	. . - -	Starting signal		- . . - .
T	-			Multiplication sign	[×]	- . . -
U	. . -			At sign	[@]	. - - . - .
V	. . . -			Break	[BK]	- . . . - .
W	. - -			Ampersand	[&]	. - . . .
X	- . . .					
Y	- . - -					
Z	- - . .					

For Cyrillic morse etc., see also
<http://udxf.nl/Morse-document.pdf>
<http://udxf.nl/Russian.pdf>

Chinese cut numbers
(M89, M95, MC03, etc)

A	U	3	4	5	6	7	D	N	T
1	2	3	4	5	6	7	8	9	0

M08a cut numbers

A	N	D	U	W	R	I	G	M	T
1	2	3	4	5	6	7	8	9	0

Q26 conversion

F	J	B	P	G	U	Y	M	C	W
0	1	2	3	4	5	6	7	8	9

3rd shift Cyrillic RTTY as used by M42b

Q	W	E	R	T	Y	U	I	O	P	(	K	V	Z
1	2	3	4	5	6	7	8	9	0	K	=	-	+

Word	E11a	S11a	M03
Attention	Attention	Vnimanye	
Slash /	Oblique	Cirta	- . . - .
Out	Out	Konets	

Figure	English	French	German	Mandarin	Spanish	Russian	Arabic
0	Zero	Zero	Null	Ling	Cero	Null	Sifr
1	One	Un	Eins	Yi	Uno	Odín	Wahid
2	Two	Deux	Zwei	Er	Dos	Dva	Itnien
3	Three	Trois	Drei	San	Tres	Tri	Talata
4	Four	Quatre	Vier	Si	Cuatro	Chety're	Arba`a
5	Five	Cinq	Fünf	Wu	Cinco	Pyat'	Xamsa
6	Six	Six	Sechs	Liu	Seis	Shest'	Sitta
7	Seven	Sept	Sieben	Qi	Siete	Sem'	Sab`a
8	Eight	Huit	Acht	Ba	Ocho	Vósem'	Tamanya
9	Nine	Neuf	Neun	Jiu	Nueve	Dévyat'	Tiss`a

Figure	Morse	Vietnamese	E17z	S11a	G06	E11
0	— — — — —	Số không	Zero	nul	Null	Zero
1	. — — — —	Một	Van	adinka	Eins	One
2	. . — — —	Hai	To	dvoyka	Twso	Two
3	. . . — —	Ba	Fwee	troyka	Drei	Three
4	 —	Bô'n	Fo	chetvyorka	Vier	Four
5		Năm	Fav	petyorka	Funuf	Fiver
6	—	Sáu	Six	shest	Sechs	Six
7	— — . . .	Ba y	Seven	syem	Sieben	Seven
8	— — — . .	Tám	Eight	vosyem	Acht	Eight
9	— — — — .	Chín	Nine	dyevyet	Neugen	Niner
=	—					
/	—					

Note: E17z, M03 and M08a are defunct.

COLOPHON

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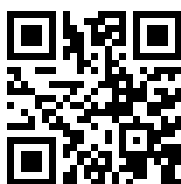
NUMBERS STATIONS SCHEDULES <http://priyom.org/number-stations/station-schedule>

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476 27364 92836 89428 61288 74982 36498 32764 81276 81
 486 48932 70987 32123 49817 26346 81287 65491 87364 81
 721 75654 55656 12737 72727 72727 91918 63473 67867 72
 723 87629 37677 32612 53498 71296 28756 18276 98716 87
 7269 76329 74698 76857 98678 27681 56781 57681 73648 81
 591 87364 87265 96718 27638 12673 84769 28743 98127 5
 8 63298 75698 27465 87326 49876 28376 81273 98615 6
 67 87432 74328 78674 29867 32867 67867 86786 43266 48
 57 68768 68763 34234 34238 68768 62342 48273 48768 28
 36 98432 32432 86743 43286 43286 43286 43286 43286 43
 743 86743 86743 39867 32867 86743 43286 43286 43243 86
 741 86743 86743 86743 86743 86743 86743 86743 86743 48
 343 98798 98754 98754 98754 98754 29867 67543 67986 86
 76 87698 69876 87698 69876 87612 12341 34867 86798 652
 867 83298 65656 56756 56123 32143 14321 32143 14321 321
 42767 58765 76581 58765 76587 58765 76587 58756 7658
 86765 76581 58765 76587 58765 76587 58765 76587 58765

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